DOCUMENT RESUME

ED 141 101 SE 022 576

TITLE	The 4M comPany: Make Mine Metric Marvels. Third Grade Student Booklet.
INSTITUTION	Hawaii State Dept. of Education, Honolulu.; Hawaii Univ., Honolulu. Coll. of Education.
PUB DATE	76
NOTE	62p.; For related documents, see SE 022 570-583
AVAILABLE FROM	Metric Project, University of Hawaii, 1776 University Ave., Honolulu, Hawaii 96822 ($1.00)
EDRS PRICE	MF-$0.83 HC-$3.50 Plus Postage.
DESCRIPTORS	Elementary Education; *Elementary School Mathematics; *Instructional Materials; *Mathematics Education; *Metric System; Workbooks

ABSTRACT

This student activity manual for elementary students is designed to teach several metric units. Included are activities related to length (meter), volume (liter), mass (grams), and temperature (celsius). Activities include a variety of drill sheets interspersed with other activities. Cartoons are used extensively to appeal to student interests. (RH)

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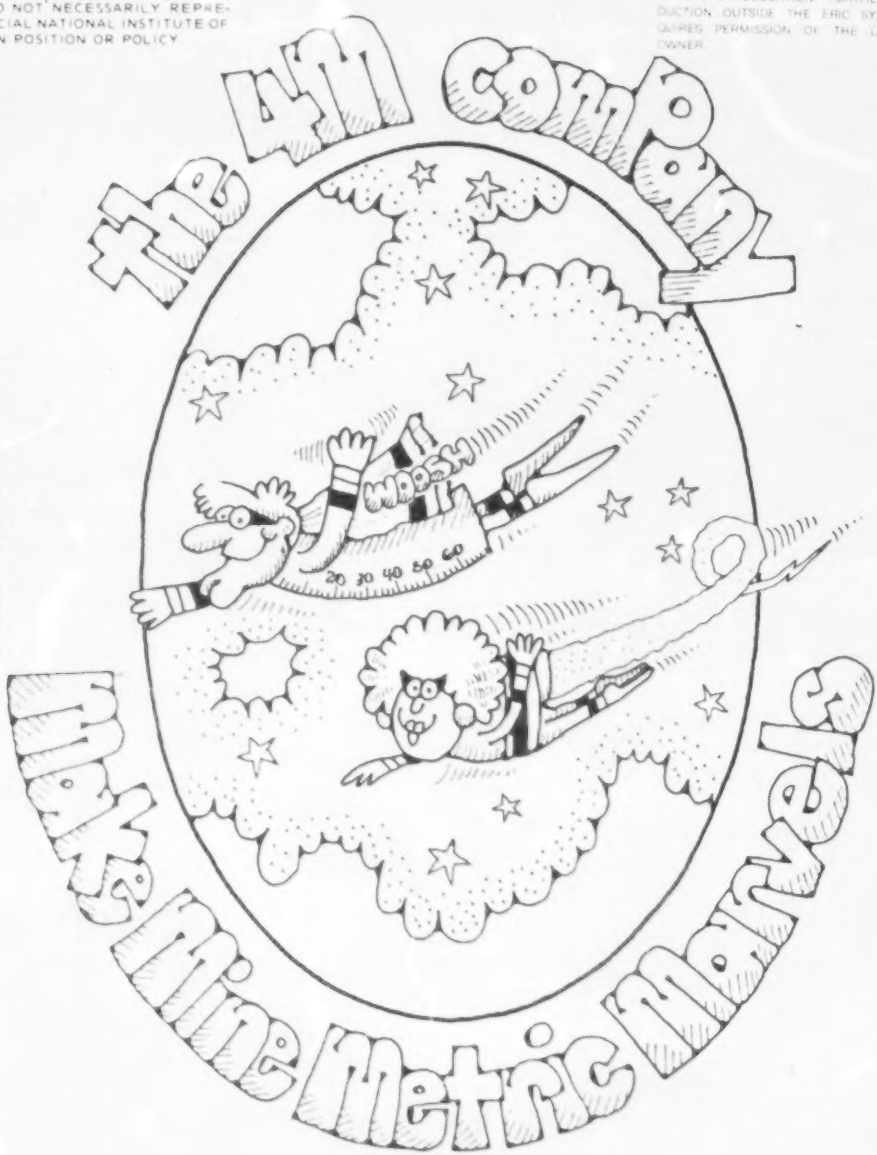

presents

the metric system

starring the

MAKE MINE METRIC MARVELS

project staff:

Irv King, Director

Kathleen Berg, Curriculum Planner

Kini Haines, Artist

a cooperative effort of
the University of Hawaii
and the Department
of Education

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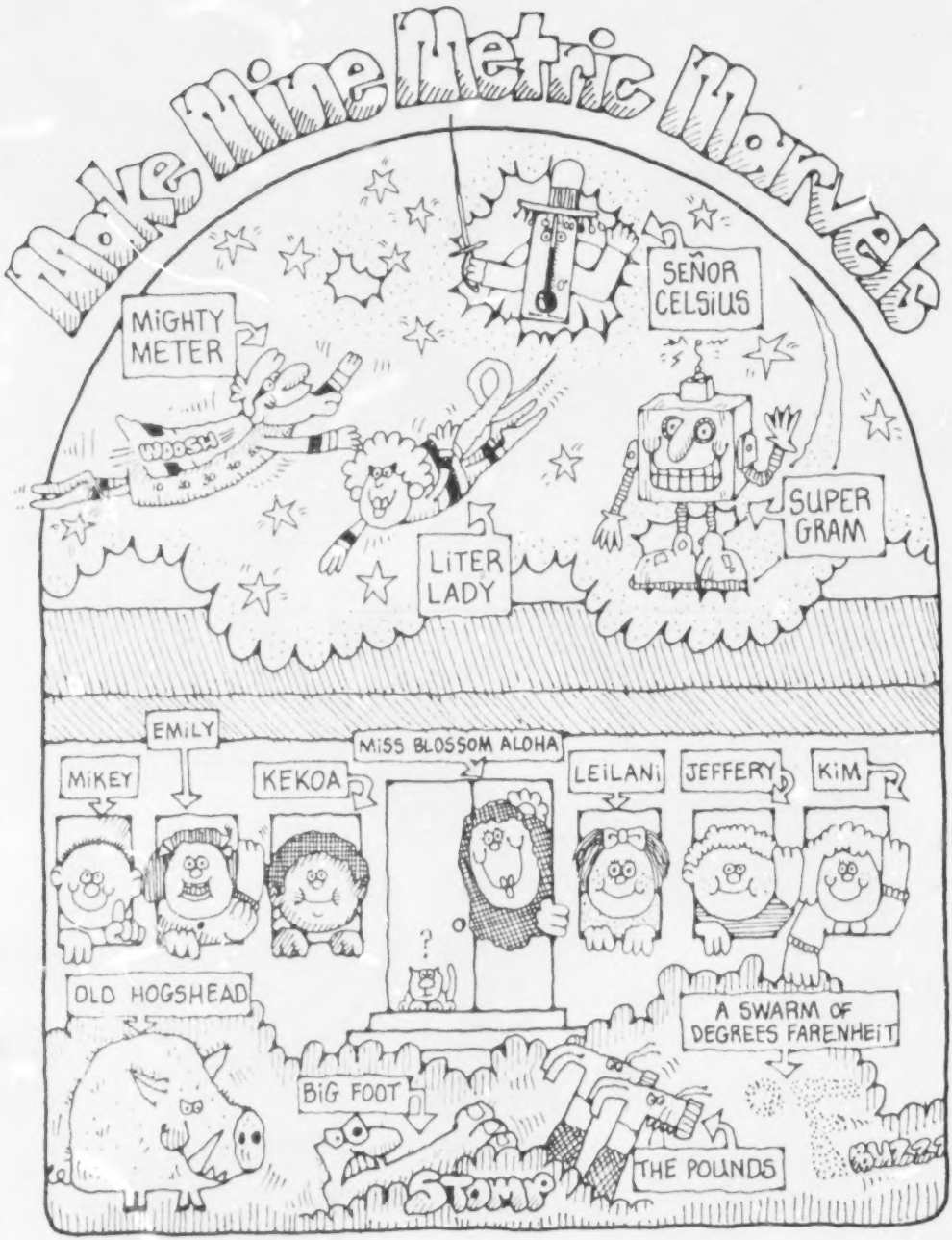
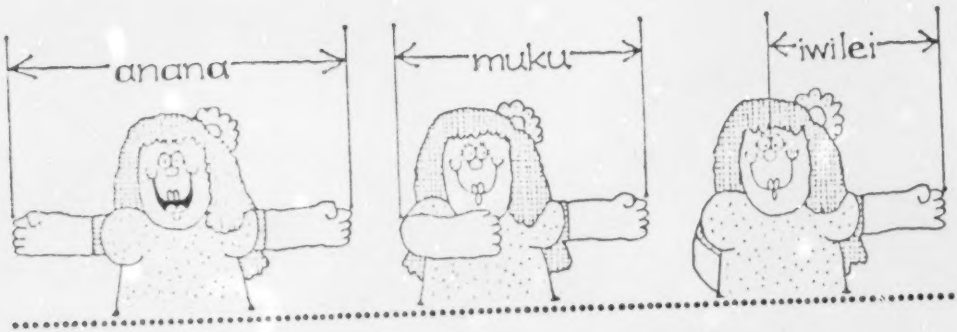

Make mine Metric Marvels
MIGHTY METER
WOOOSH
SEÑOR CELSIUS
SUPER GRAM
LITER LADY
EMILY
MIKEY
KEKOA
MISS BLOSSOM ALOHA
LEILANI
JEFFERY
KIM
OLD HOGSHEAD
BIG FOOT
STOMP
A SWARM OF DEGREES FARENHEIT
THE POUNDS

Miss Blossom Aloha is trying to teach her students about the metric system. But she is continually interrupted by some old-fashioned units of measurement: Big Foot, Old Hogshead, the Pounds, and a swarm of degrees Farenheit.

Little Kekoa, one of Miss Aloha's students, has some very special friends: **Mighty Meter, Liter Lady, Super Gram, and Señor Celsius.** By pressing the correct buttons on his magic wrist transceiver, the Make Mine Metric Marvels arrive and fight for truth, justice, and the AMETRICAN way of life!

the 4th company

MEASURES FROM OLD HAWAII



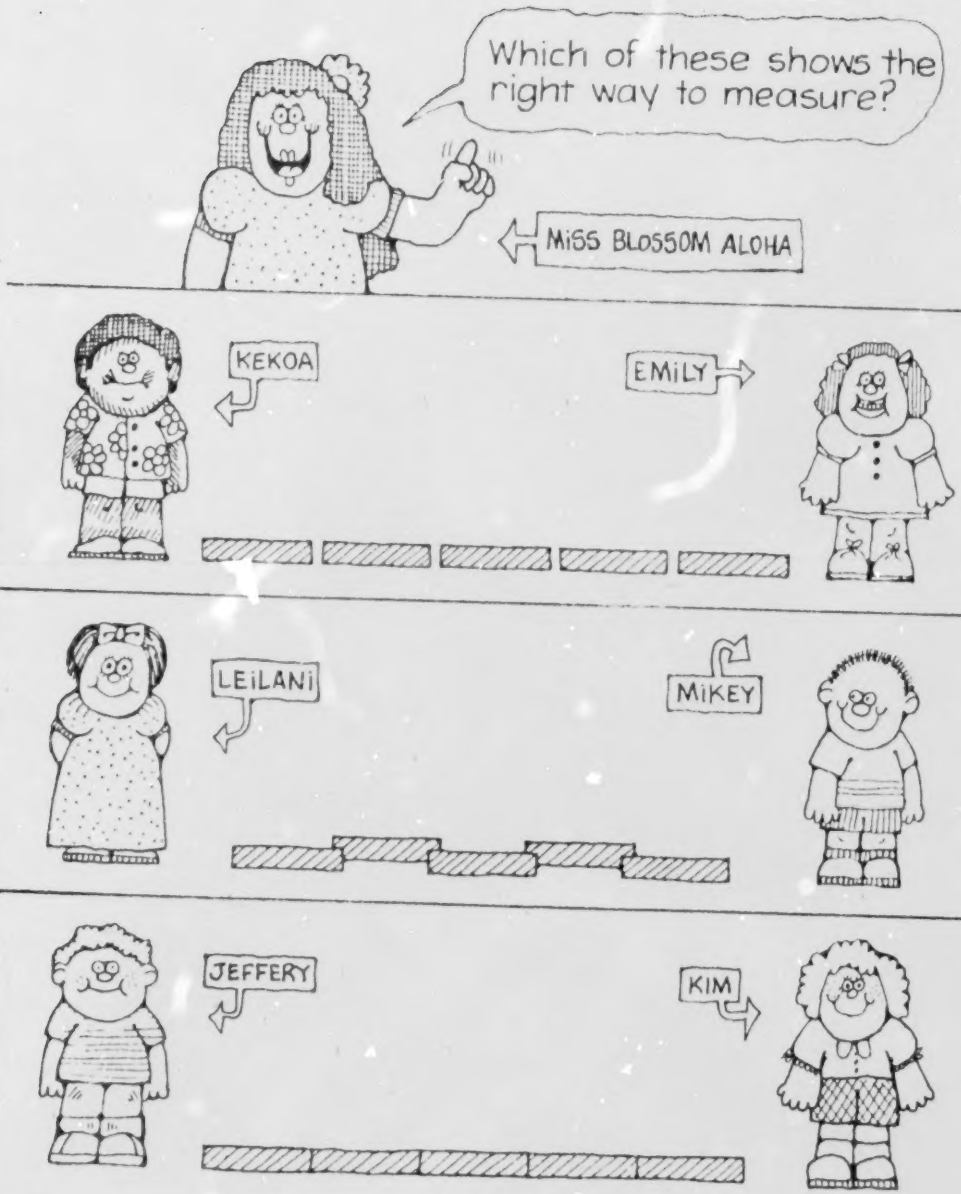
Our classroom is about _____ananas long.

Our classroom is about _____mukus long.

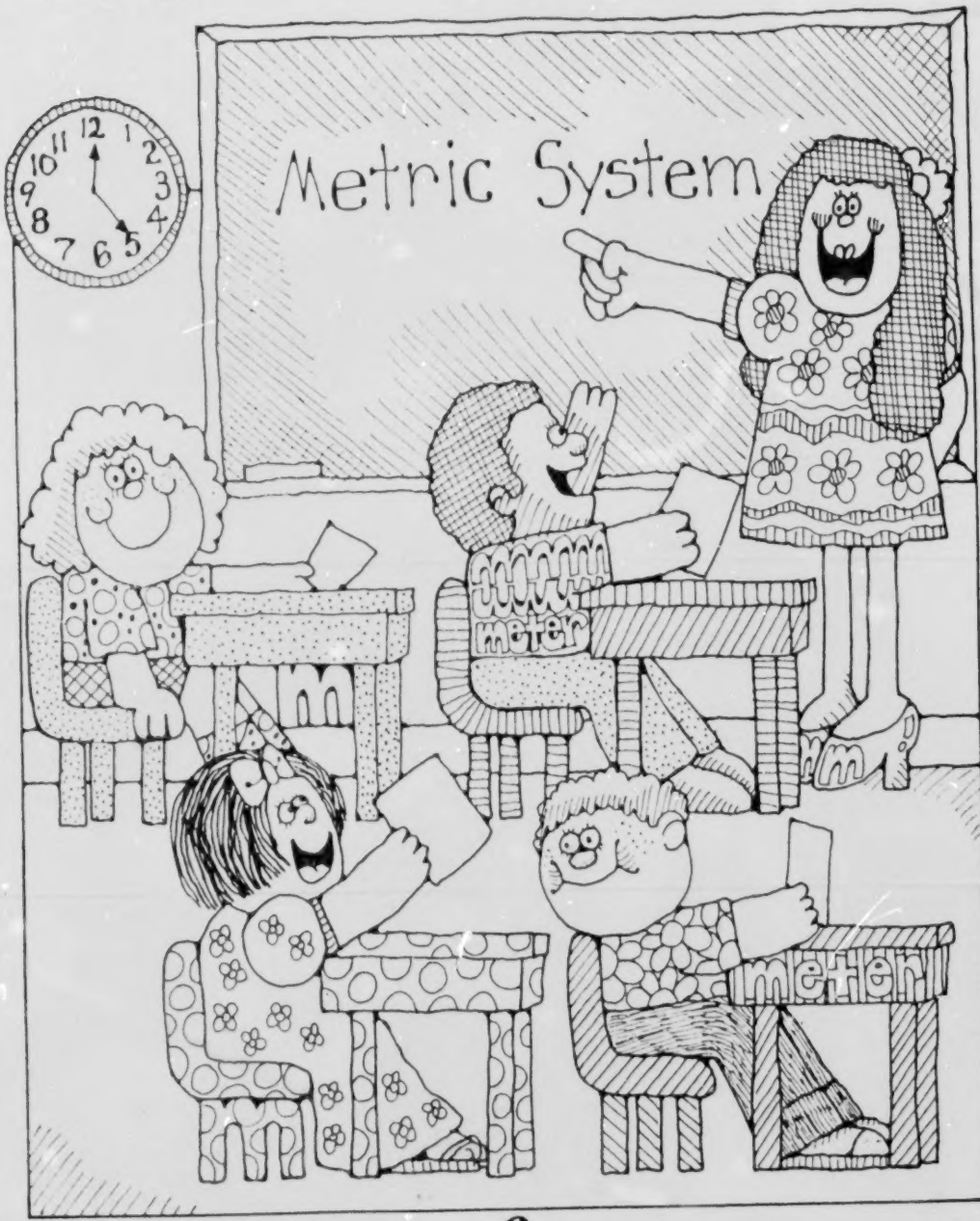
Our classroom is about _____iwileis long.

HOMEWORK

My bedroom is about _____ananas long.


Which of these shows the right way to measure?
MISS BLOSSOM ALOHA
KEKOA
EMILY
LEILANI
MIKEY
JEFFERY
KIM

There are 2 words and 3 symbols for meter hidden in the picture. Can you find them?



My desk is about _____dm tall.

My desk top is about _____dm wide.

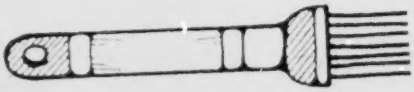
My desk top is about _____dm long.

My METRIC BOOK is about _____dm long.

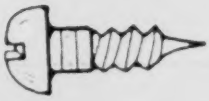
My waist is about _____dm.

My head is about _____dm.

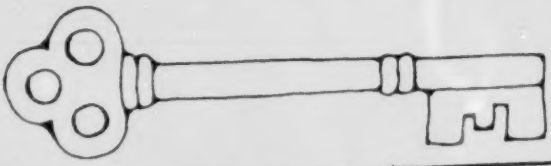
KEKOA
iT'S TiME TO CALL
MIGHTY
METER!
Measure with your
centimeter ruler.



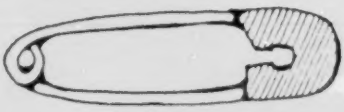
_____cm



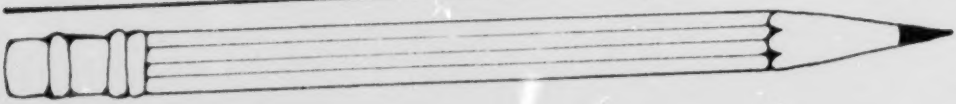
_____cm



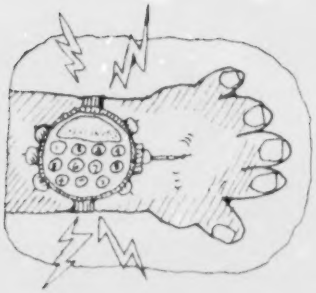
_____cm



_____cm



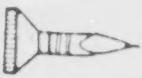
_____cm



KEKOA'S MAGIC WRIST TRANSCEIVER

Measure in centimeters.

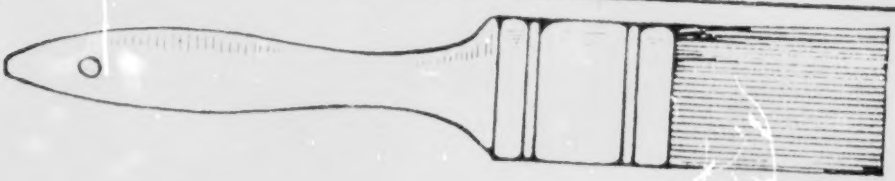
_____ cm



_____ cm

_____ cm

_____ cm



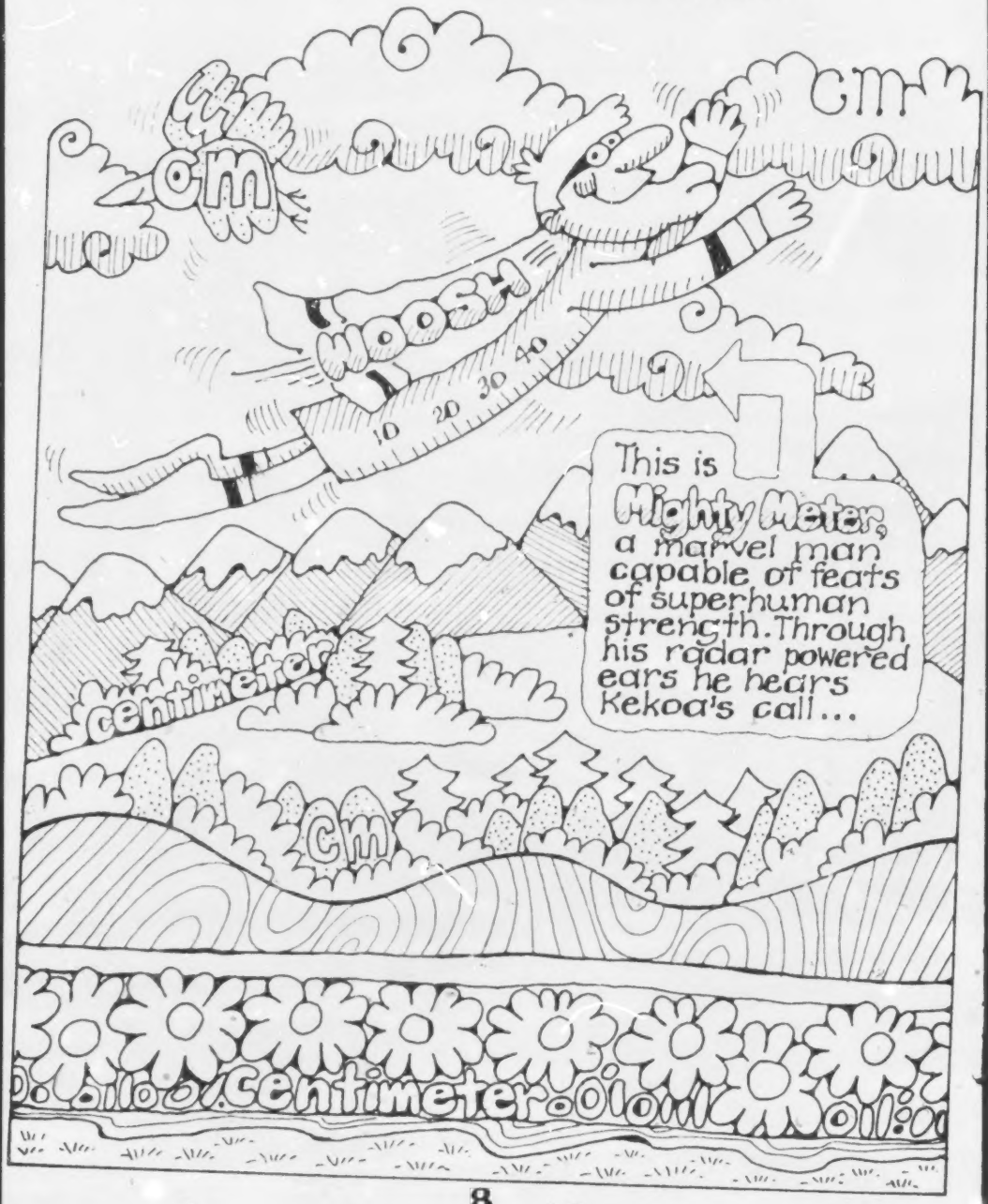
_____ cm

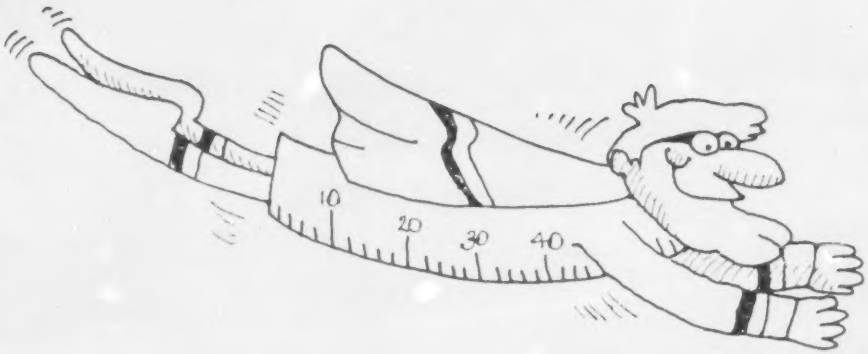
I am _____centimeters tall.

My hand span is about _____centimeters.

My foot is _____centimeters long.

There are 2 words and 3 symbols for centimeter hidden in the picture. Can you find them?


cm
cm
cm
WOOSH
10 20 30 40
This is Mighty Meter, a marvel man capable of feats of superhuman strength. Through his radar powered ears he hears Kekoa's call...
centimeter
centimeter



Let's add meters.
Label your answers.

2 m + 3 m	5 m + 5 m	3 m + 4 m	6 m + 3 m	4 m + 4 m	3 m + 5 m
m					

Let's add decimeters.
Label your answers.

3 dm + 1 dm	2 dm + 5 dm	4 dm + 5 dm	8 dm + 2 dm	5 dm + 3 dm	2 dm + 4 dm
dm					

Let's add centimeters.
Label your answers.

4 cm + 6 cm	2 cm + 2 cm	1 cm + 7 cm	3 cm + 3 cm	6 cm + 2 cm	5 cm + 4 cm
cm					

SECRET CODE

Y	U	T	S	P	O	L	F
6cm	6dm	6m	8cm	8dm	8m	4m	4cm

S			
4cm +4cm	3m +3m	2m +6m	7dm +1dm
8cm			

5cm +1cm	3m +5m	4dm +2dm

1cm +3cm	8m +0m	1dm +5dm	3m +1m

7cm −3cm	10m −2m	2m +6m	10m −4m

15

10

ADD!

$\overset{1}{25}\text{m} + 7\text{m} = 32\text{m}$	$18\text{m} + 6\text{m}$	$22\text{m} + 8\text{m}$	$34\text{m} + 7\text{m}$	$26\text{m} + 29\text{m}$
$14\text{m} + 8\text{m}$	$48\text{m} + 5\text{m}$	$37\text{m} + 6\text{m}$	$56\text{m} + 9\text{m}$	$18\text{m} + 43\text{m}$
$27\text{m} + 8\text{m}$	$19\text{m} + 7\text{m}$	$18\text{m} + 13\text{m}$	$27\text{m} + 15\text{m}$	$27\text{m} + 19\text{m}$
$35\text{m} + 16\text{m}$	$43\text{m} + 18\text{m}$	$29\text{m} + 26\text{m}$	$27\text{m} + 27\text{m}$	$13\text{m} + 18\text{m}$
$18\text{m} + 18\text{m}$	$15\text{m} + 28\text{m}$	$19\text{m} + 27\text{m}$	$17\text{m} + 36\text{m}$	$25\text{m} + 17\text{m}$

Let's subtract meters.
Label your answers.

6 m	7 m	8 m	5 m	4 m	8 m
-3 m	-2 m	-6 m	-3 m	-2 m	-4 m

m

Let's subtract decimeters.
Label your answers.

9 dm	8 dm	7 dm	6 dm	5 dm	4 dm
-5 dm	-3 dm	-4 dm	-2 dm	-2 dm	-3 dm

dm

Let's subtract centimeters.
Label your answers.

10 cm	9 cm	8 cm	7 cm	10 cm	9 cm
-4 cm	-6 cm	-2 cm	-5 cm	-3 cm	-4 cm

cm

SECRET CODE

B	C	E	F	G	I	M	O	R	S	T
6m	6dm	6cm	7m	7dm	7cm	8m	8dm	8cm	0m	0dm

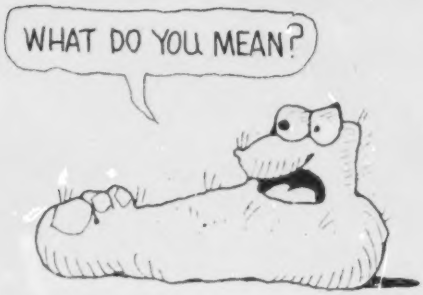
3m +3m	6cm +1cm	2dm +5dm

10m -3m	4dm +4dm	1dm +7dm	8dm -8dm

3m +5m	5cm +1cm	7dm -7dm	9cm -1cm	6cm +1cm	5dm +1dm

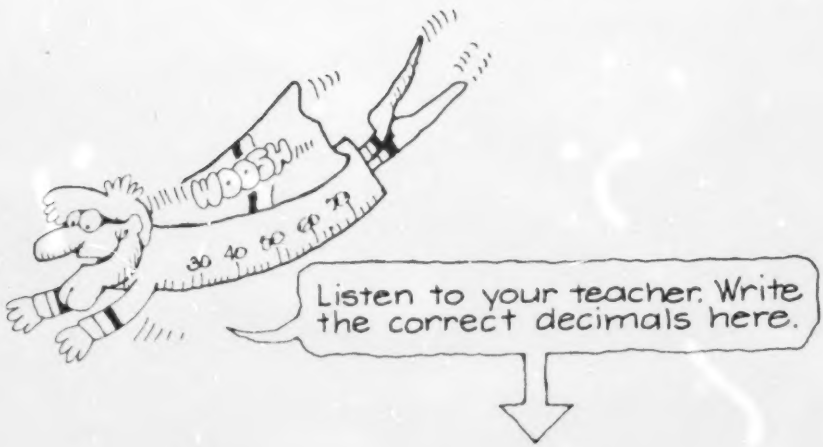
6cm +1cm	9m -9m

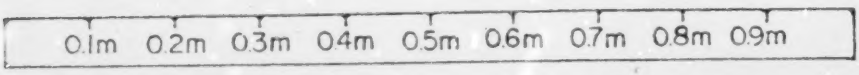
7m -1m	9cm -3cm	9m -9m	2dm -2dm



SUBTRACT...

$\overset{1}{\cancel{4}}\overset{13}{3}\text{m} - 8\text{m} = 15\text{m}$	$25\text{m} - 9\text{m}$	$31\text{m} - 8\text{m}$	$33\text{m} - 5\text{m}$	$42\text{m} - 6\text{m}$
$44\text{m} - 7\text{m}$	$26\text{m} - 8\text{m}$	$38\text{m} - 9\text{m}$	$40\text{m} - 5\text{m}$	$43\text{m} - 7\text{m}$
$21\text{m} - 6\text{m}$	$22\text{m} - 4\text{m}$	$47\text{m} - 18\text{m}$	$52\text{m} - 16\text{m}$	$63\text{m} - 15\text{m}$
$27\text{m} - 19\text{m}$	$34\text{m} - 17\text{m}$	$72\text{m} - 18\text{m}$	$45\text{m} - 28\text{m}$	$64\text{m} - 37\text{m}$
$53\text{m} - 26\text{m}$	$74\text{m} - 39\text{m}$	$96\text{m} - 68\text{m}$	$88\text{m} - 79\text{m}$	$55\text{m} - 28\text{m}$


WOOSH
30 40 50 60 70
Listen to your teacher. Write the correct decimals here.

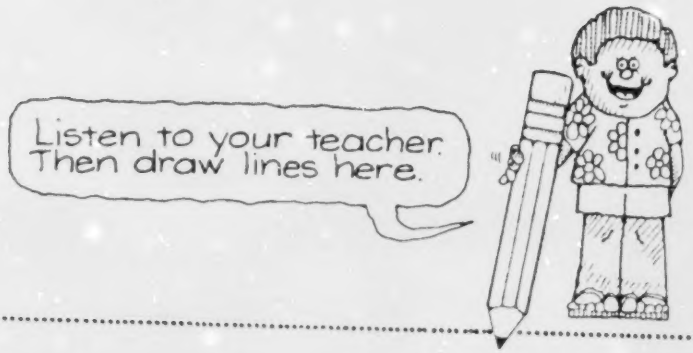

0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m

1. ☐ 5. ☐

2. ☐ 6. ☐

3. ☐ 7. ☐

4. ☐ 8. ☐



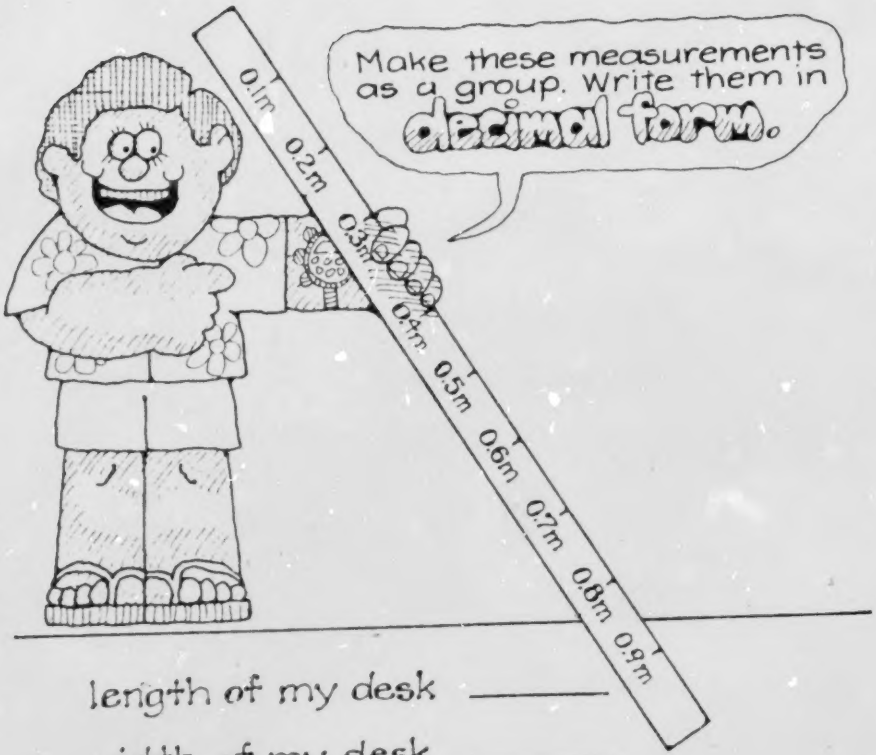
1. 0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m

2. 0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m

3. 0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m

4. 0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m

5. 0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m



length of my desk _____

width of my desk _____

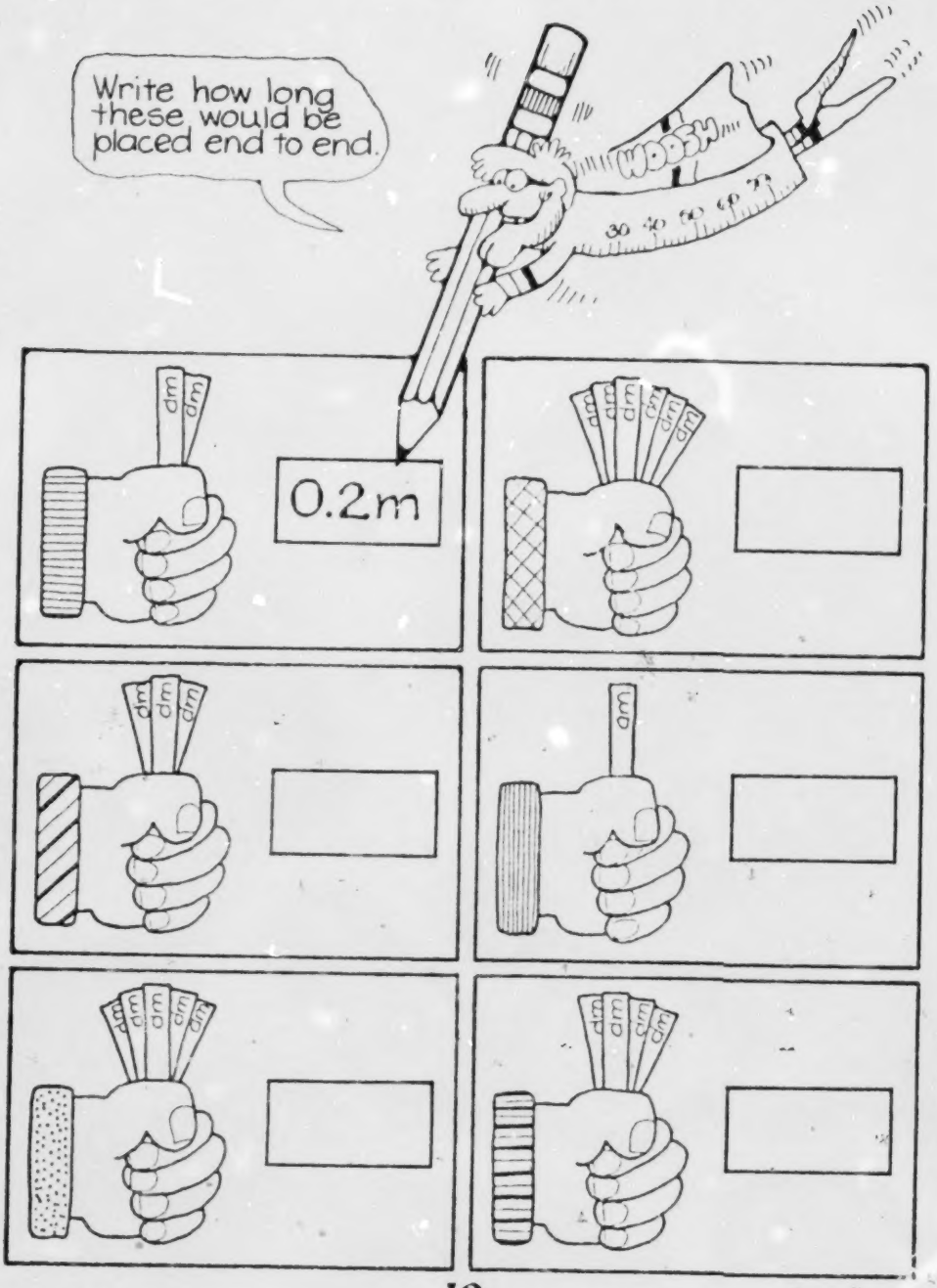
length of my metric booklet _____

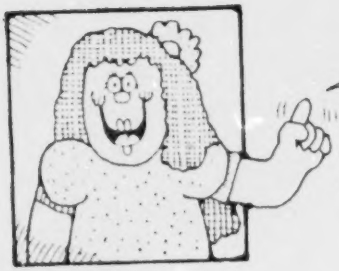
width of my metric booklet _____

my waist _____

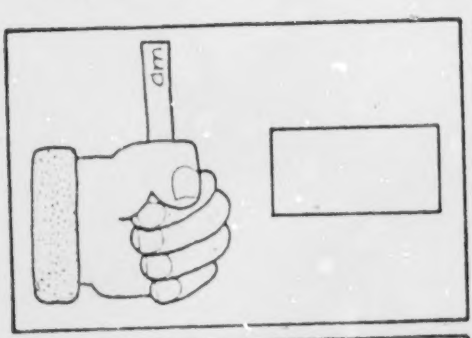
length of my arm _____

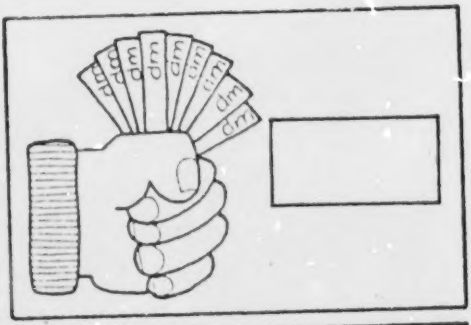
length of my foot _____

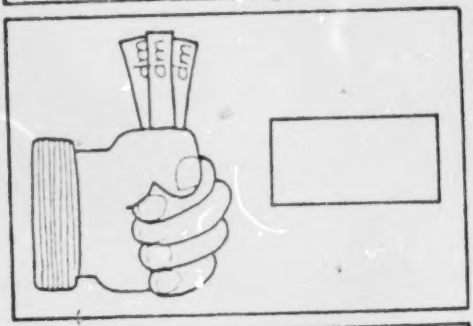

Write how long these would be placed end to end.
WOOSH
0.2m

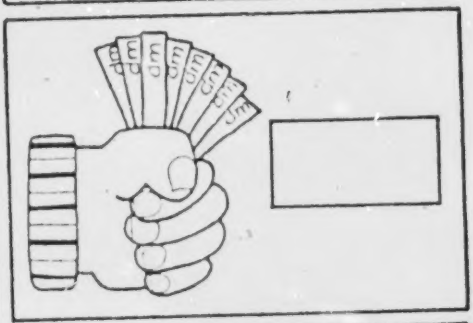


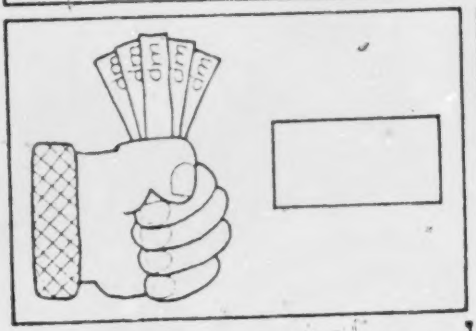
Write how long these would be placed end to end.

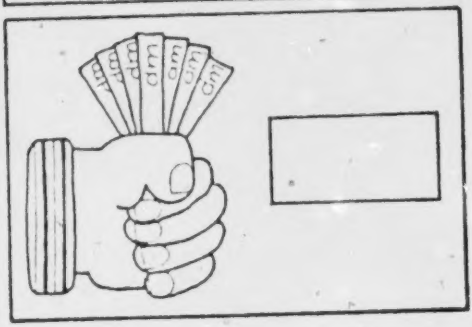


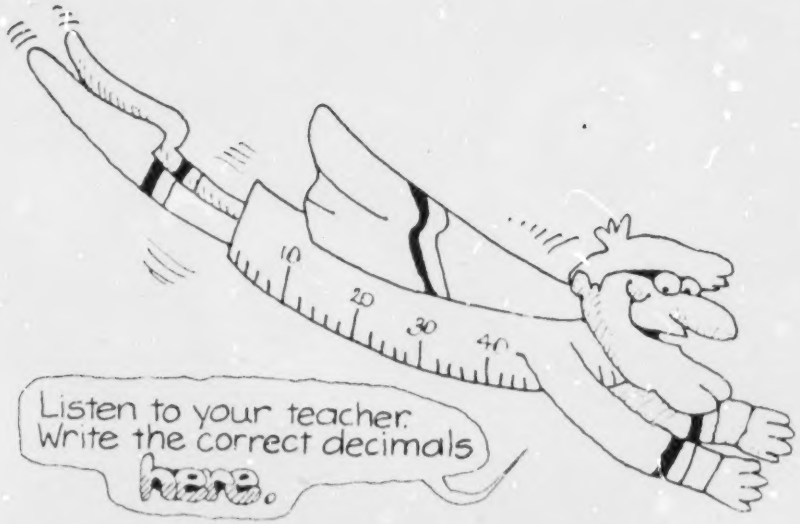












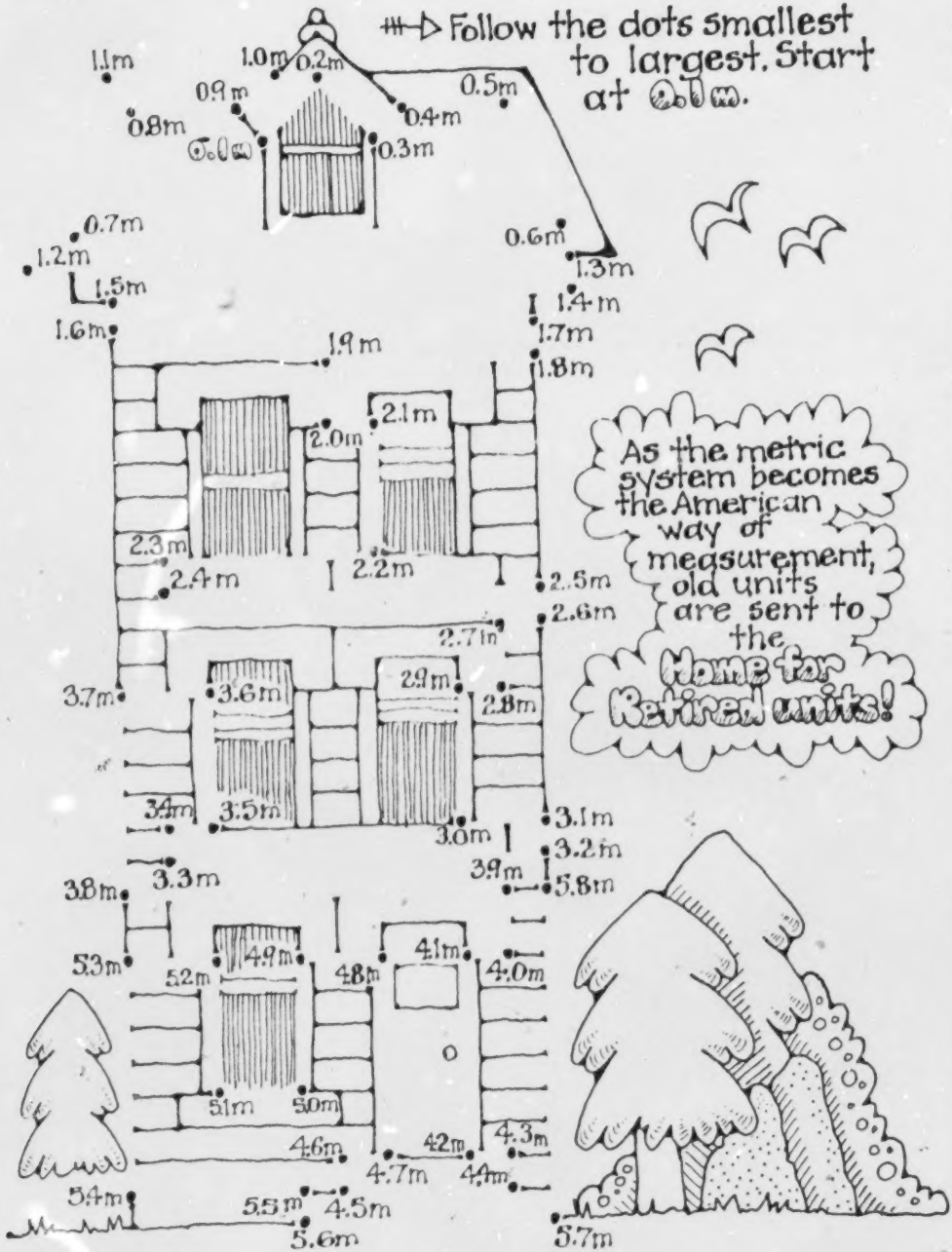
1. ☐ 6. ☐

2. ☐ 7. ☐

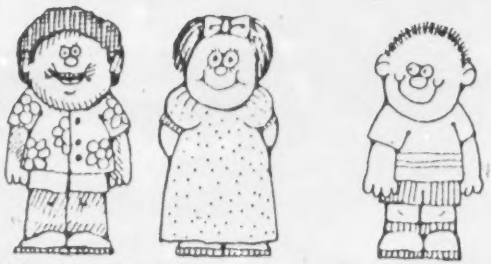
3. ☐ 8. ☐

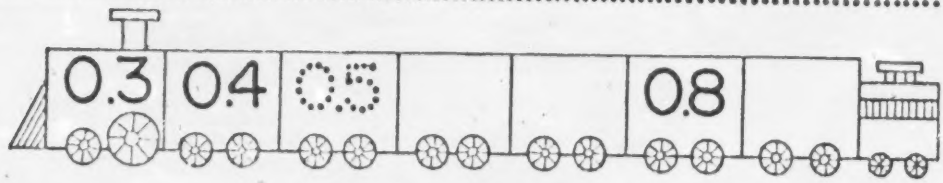
4. ☐ 9. ☐

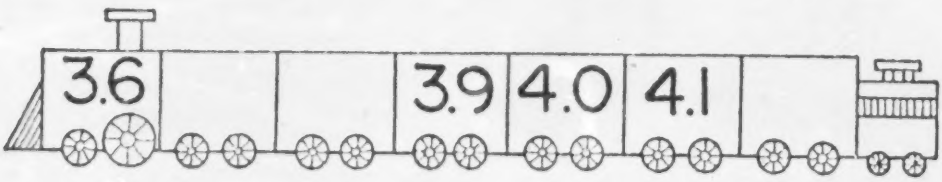
5. ☐ 10. ☐

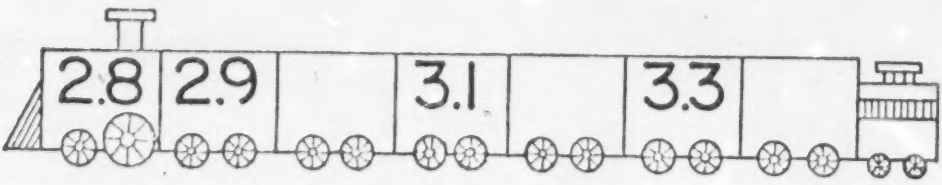

Follow the dots smallest to largest. Start at 0.0m.
1.1m
1.0m
0.2m
0.9m
0.5m
0.8m
0.4m
0.0m
0.3m
0.7m
1.2m
1.5m
0.6m
1.3m
1.4m
1.6m
1.9m
1.7m
1.8m
2.1m
2.0m
2.3m
2.4m
2.2m
2.5m
2.6m
2.7m
3.7m
3.6m
2.9m
2.8m
3.4m
3.5m
3.0m
3.1m
3.2m
3.9m
5.8m
3.8m
3.3m
5.3m
4.9m
4.1m
5.2m
4.8m
4.0m
5.1m
5.0m
4.6m
4.2m
4.3m
4.7m
4.4m
5.4m
5.5m
4.5m
5.6m
5.7m
As the metric system becomes the American way of measurement, old units are sent to the Home for Retired units!

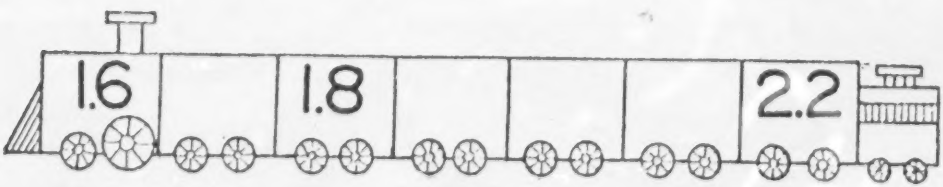
Fill in the missing numbers.

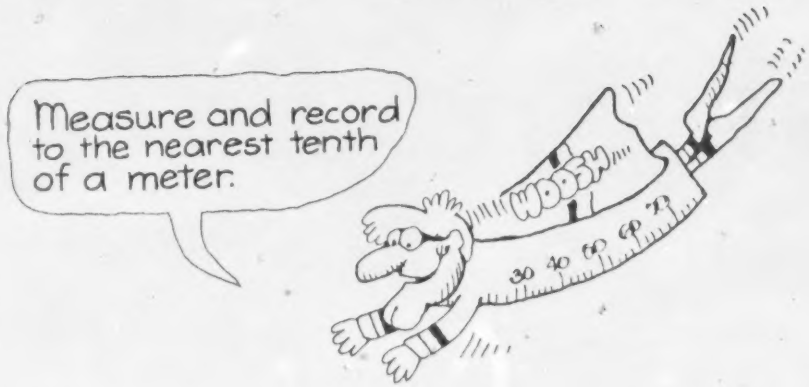


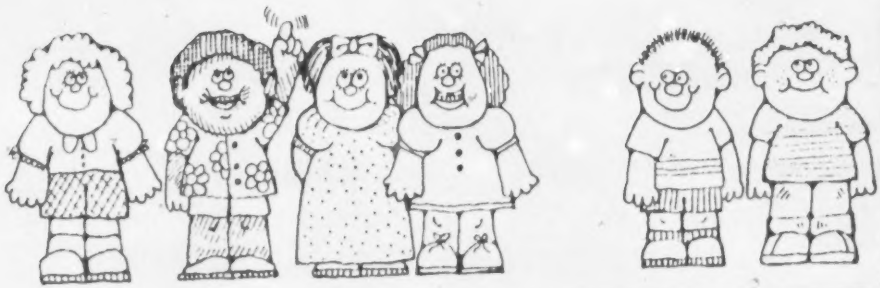






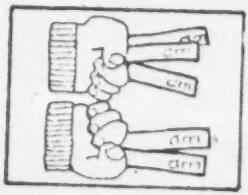






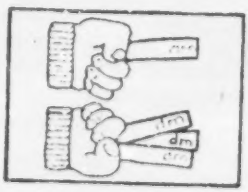
A about _____

B about _____

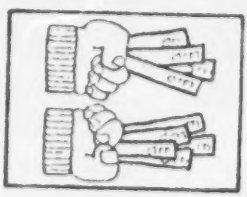


	0.3	m
+	0.2	m
	0.5	m

0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m 1.0m 1.1m 1.2m 1.3m



0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m 1.0m 1.1m 1.2m 1.3m



0.1m 0.2m 0.3m 0.4m 0.5m 0.6m 0.7m 0.8m 0.9m 1.0m 1.1m 1.2m 1.3m

0.2m +0.3m 0.5m	0.1m +0.1m	0.5m +0.2m	0.4m +0.4m	0.3m +0.1m
0.3m +0.4m	0.2m +0.2m	0.6m +0.2m	0.3m +0.3m	0.7m +0.1m
0.4m +0.2m	0.5m +0.1m	0.5m +0.3m	0.4m +0.5m	0.3m +0.6m
0.7m +0.2m	0.2m +0.5m	0.1m +0.3m	0.4m +0.3m	0.3m +0.2m
0.5m +0.4m	0.3m +0.5m	0.1m +0.2m	0.2m +0.6m	0.1m +0.7m

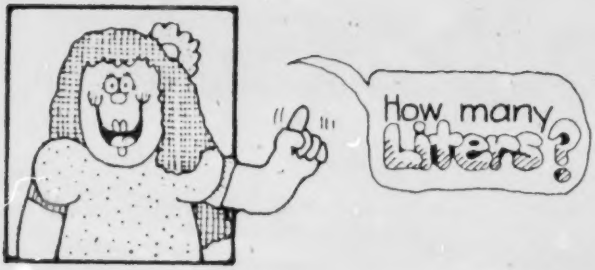
0.8m + 0.4m = 1.2m	0.9m + 0.1m	0.5m + 0.5m	0.7m + 0.8m	0.4m + 0.8m
0.3m + 0.6m	0.8m + 0.3m	0.6m + 0.6m	0.9m + 0.3m	0.7m + 0.6m
0.5m + 0.9m	0.8m + 0.8m	0.7m + 0.7m	0.1m + 0.9m	0.9m + 0.9m
0.4m + 0.4m	0.3m + 0.8m	0.8m + 0.9m	0.8m + 0.6m	0.6m + 0.7m
0.3m + 0.3m	0.7m + 0.9m	0.4m + 0.9m	0.8m + 0.7m	0.6m + 0.5m

1 1.8m +1.4m 3.2m	1.7m +0.4m	1.9m +1.5m	2.5m +1.6m	2.8m +1.3m
1.6m +1.6m	1.7m +1.7m	1.8m +1.8m	2.9m +0.4m	2.6m +0.4m
3.3m +2.7m	4.9m +1.3m	4.4m +3.8m	2.5m +2.5m	4.9m +3.9m
3.9m +3.8m	4.5m +4.5m	6.6m +2.5m	3.5m +3.5m	8.8m +0.5m
2.3m +3.7m	1.9m +4.3m	2.3m +1.8m	1.5m +2.6m	3.4m +4.8m

SUBTRACT.

0.6m −0.3m 0.3m	0.8m −0.4m	0.7m −0.3m	0.5m −0.2m	0.9m −0.4m
0.4m −0.2m	0.3m −0.2m	0.6m −0.4m	0.9m −0.3m	0.8m −0.6m
0.5m −0.1m	0.7m −0.5m	1.7m −0.4m	1.4m −0.2m	1.5m −0.3m
1.6m −0.2m	1.8m −0.3m	1.9m −0.8m	1.2m −0.2m	1.9m −0.6m
1.8m −0.2m	1.6m −0.5m	1.3m −0.3m	1.8m −0.5m	0.8m −0.7m

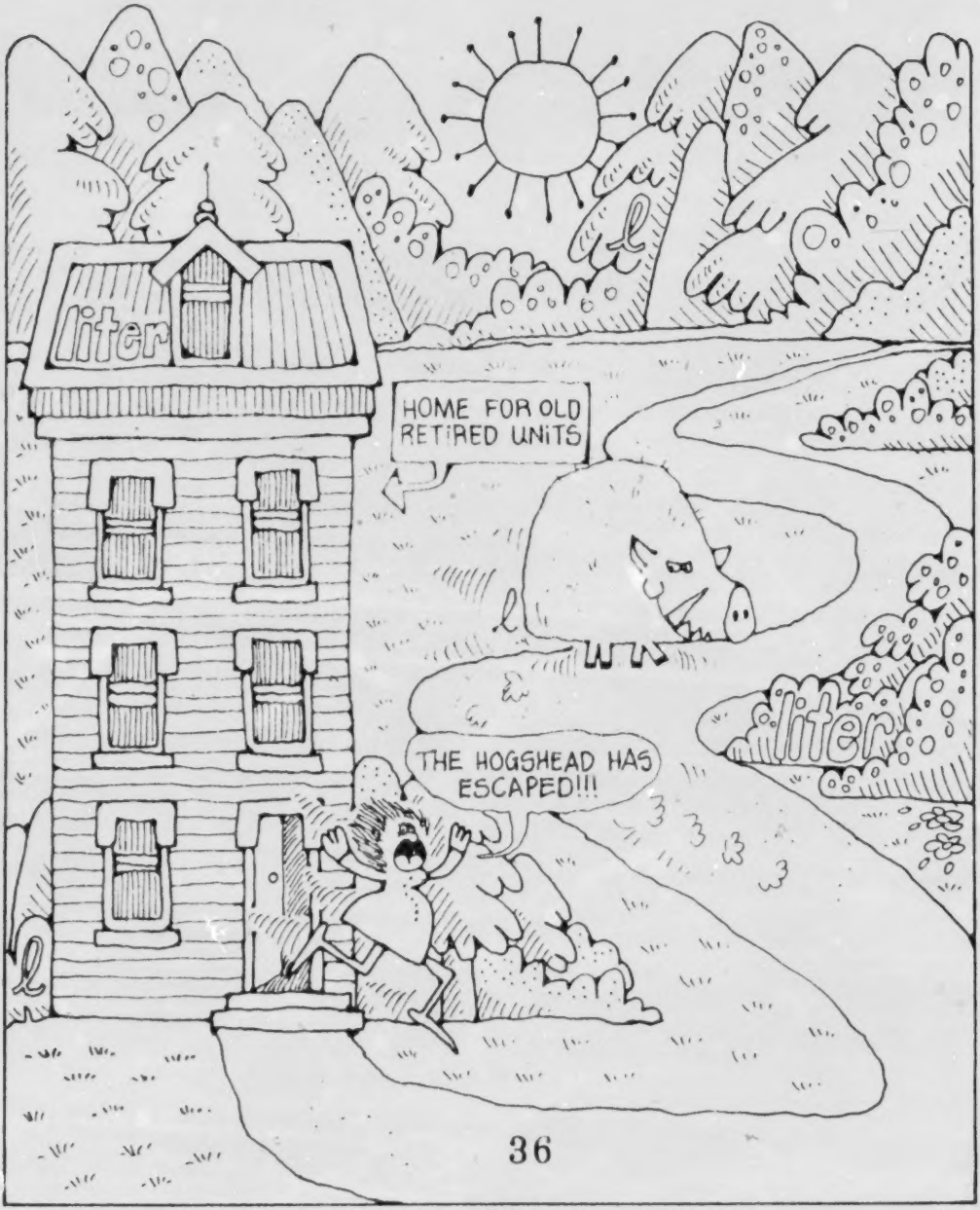
$\overset{1}{\cancel{2}}\overset{1}{\cancel{.}}3\text{m} - 0.4\text{m} = 1.9\text{m}$	$2.5\text{m} - 0.6\text{m}$	$2.1\text{m} - 0.8\text{m}$	$2.4\text{m} - 0.7\text{m}$	$3.3\text{m} - 1.6\text{m}$
$3.6\text{m} - 0.8\text{m}$	$3.5\text{m} - 0.9\text{m}$	$4.7\text{m} - 0.8\text{m}$	$4.2\text{m} - 0.6\text{m}$	$4.4\text{m} - 2.8\text{m}$
$3.4\text{m} - 1.7\text{m}$	$3.3\text{m} - 1.8\text{m}$	$3.8\text{m} - 1.9\text{m}$	$4.1\text{m} - 1.3\text{m}$	$2.3\text{m} - 1.6\text{m}$
$3.2\text{m} - 1.6\text{m}$	$4.5\text{m} - 2.9\text{m}$	$3.1\text{m} - 1.8\text{m}$	$4.7\text{m} - 2.9\text{m}$	$3.7\text{m} - 1.9\text{m}$
$2.2\text{m} - 1.6\text{m}$	$3.1\text{m} - 2.7\text{m}$	$2.4\text{m} - 1.7\text{m}$	$4.8\text{m} - 3.9\text{m}$	$4.2\text{m} - 0.8\text{m}$



holds _____ liters

holds _____ liters

There are 2 words and 3 symbols for liter hidden in the picture. Can you find them?

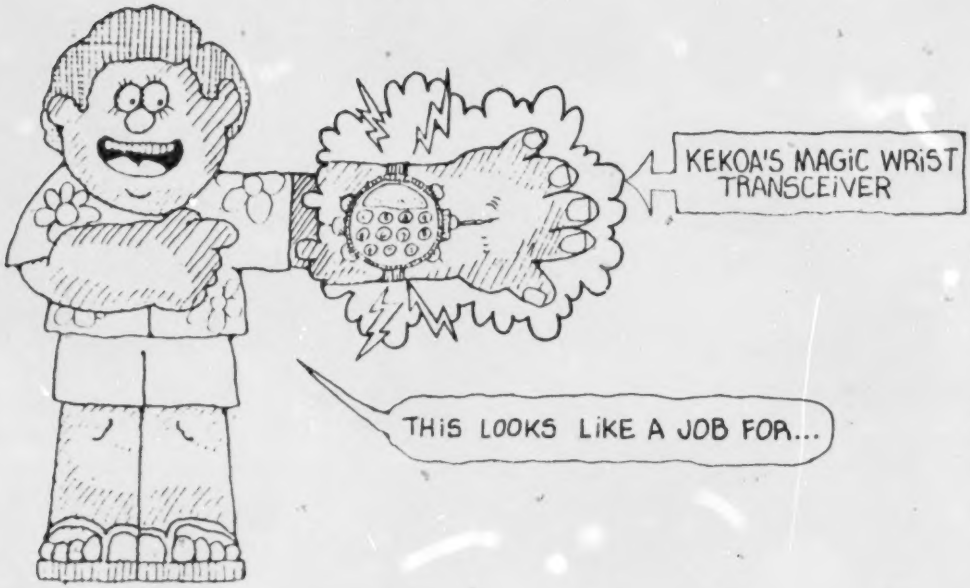


SECRET CODE

A	G	I	M	3	G	L	N	O	S
1ℓ	2ℓ	3ℓ	4ℓ	5ℓ	6ℓ	7ℓ	8ℓ	9ℓ	10ℓ

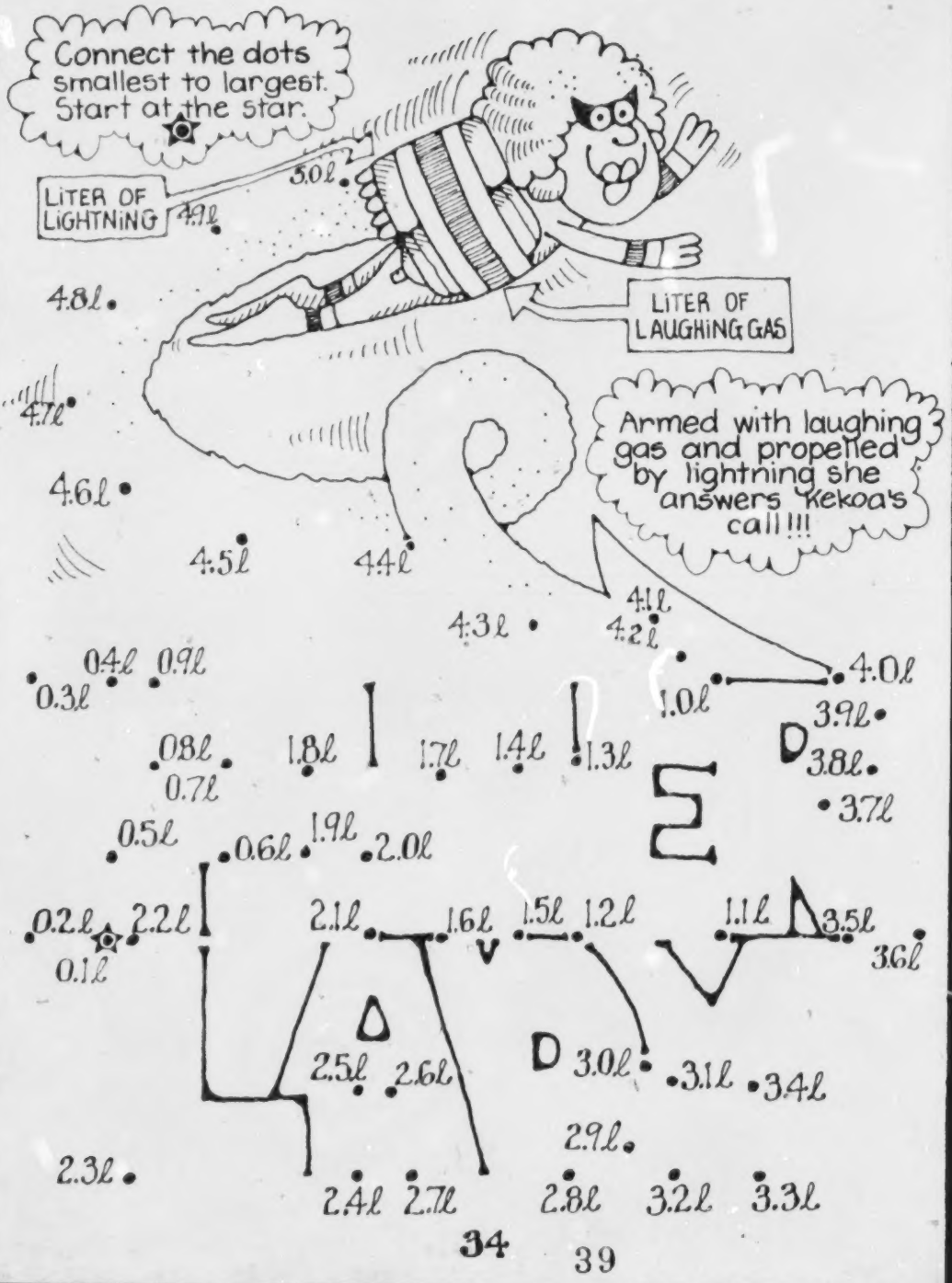
$\begin{array}{r} 2\ell \\ +1\ell \end{array}$	$\begin{array}{r} 4\ell \\ -3\ell \end{array}$	$\begin{array}{r} 1\ell \\ +3\ell \end{array}$

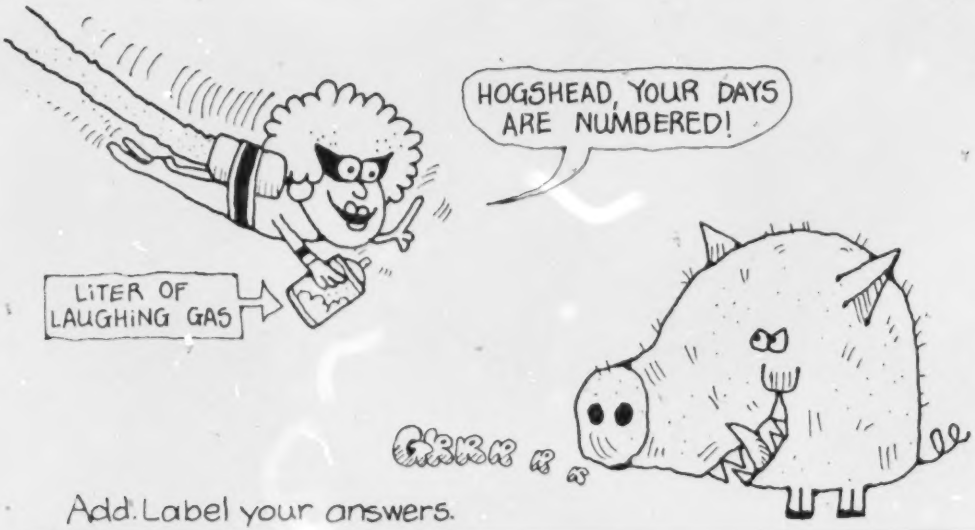
$\begin{array}{r} 1\ell \\ +5\ell \end{array}$	$\begin{array}{r} 6\ell \\ -5\ell \end{array}$	$\begin{array}{r} 3\ell \\ +4\ell \end{array}$	$\begin{array}{r} 6\ell \\ +1\ell \end{array}$	$\begin{array}{r} 5\ell \\ +4\ell \end{array}$	$\begin{array}{r} 4\ell \\ +4\ell \end{array}$	$\begin{array}{r} 5\ell \\ +5\ell \end{array}$



C about _____ deciliters

D about _____ deciliters


Connect the dots smallest to largest. Start at the star.
LITER OF LIGHTNING
LITER OF LAUGHING GAS
Armed with laughing gas and propelled by lightning she answers Kekoa's call!!!
0.1ℓ
0.2ℓ
0.3ℓ
0.4ℓ
0.5ℓ
0.6ℓ
0.7ℓ
0.8ℓ
0.9ℓ
1.0ℓ
1.1ℓ
1.2ℓ
1.3ℓ
1.4ℓ
1.5ℓ
1.6ℓ
1.7ℓ
1.8ℓ
1.9ℓ
2.0ℓ
2.1ℓ
2.2ℓ
2.3ℓ
2.4ℓ
2.5ℓ
2.6ℓ
2.7ℓ
2.8ℓ
2.9ℓ
3.0ℓ
3.1ℓ
3.2ℓ
3.3ℓ
3.4ℓ
3.5ℓ
3.6ℓ
3.7ℓ
3.8ℓ
3.9ℓ
4.0ℓ
4.1ℓ
4.2ℓ
4.3ℓ
4.4ℓ
4.5ℓ
4.6ℓ
4.7ℓ
4.8ℓ
4.9ℓ
5.0ℓ

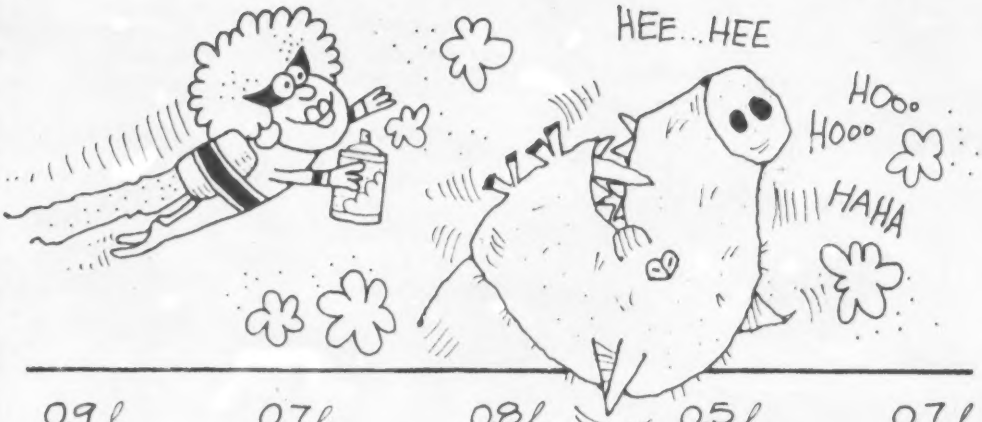


Add. Label your answers.

$0.3\ell + 0.2\ell = 0.5\ell$	$0.5\ell + 0.3\ell$	$0.4\ell + 0.2\ell$	$0.6\ell + 0.3\ell$	$0.2\ell + 0.3\ell$
$0.2\ell + 0.2\ell$	$0.4\ell + 0.4\ell$	$0.3\ell + 0.3\ell$	$0.4\ell + 0.5\ell$	$0.2\ell + 0.5\ell$
$0.8\ell + 0.3\ell$	$0.6\ell + 0.6\ell$	$0.7\ell + 0.7\ell$	$0.8\ell + 0.8\ell$	$0.9\ell + 0.5\ell$
$0.6\ell + 0.9\ell$	$0.8\ell + 0.4\ell$	$0.4\ell + 0.8\ell$	$0.7\ell + 0.5\ell$	$0.8\ell + 0.9\ell$

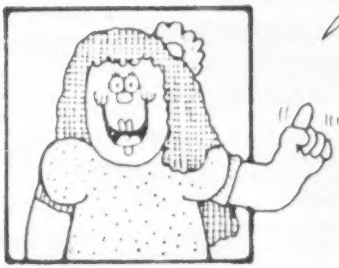
Add. Label your answers.

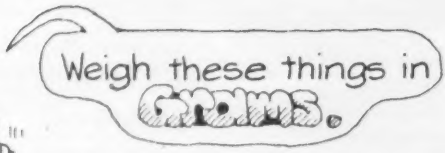
$\begin{array}{r} {\scriptstyle 1}\\ 2.3\ell \\ +5.8\ell \\ \hline 8.1\ell \end{array}$	$\begin{array}{r} 3.9\ell \\ +4.3\ell \end{array}$	$\begin{array}{r} 5.7\ell \\ +1.7\ell \end{array}$	$\begin{array}{r} 0.4\ell \\ +3.6\ell \end{array}$	$\begin{array}{r} 2.2\ell \\ +1.9\ell \end{array}$
$\begin{array}{r} 1.7\ell \\ +3.3\ell \end{array}$	$\begin{array}{r} 2.5\ell \\ +3.5\ell \end{array}$	$\begin{array}{r} 9.3\ell \\ +5.8\ell \end{array}$	$\begin{array}{r} 5.5\ell \\ +2.3\ell \end{array}$	$\begin{array}{r} 4.4\ell \\ +2.2\ell \end{array}$
$\begin{array}{r} 3.8\ell \\ +5.5\ell \end{array}$	$\begin{array}{r} 2.1\ell \\ +3.7\ell \end{array}$	$\begin{array}{r} 932.9\ell \\ +\ 90.1\ell \end{array}$		$\begin{array}{r} 52.7\ell \\ +19.2\ell \end{array}$
$\begin{array}{r} 0.9\ell \\ +3.9\ell \end{array}$	$\begin{array}{r} 2.8\ell \\ +3.8\ell \end{array}$	$\begin{array}{r} 6.7\ell \\ +2.8\ell \end{array}$	$\begin{array}{r} 2.9\ell \\ +3.0\ell \end{array}$	$\begin{array}{r} 0.6\ell \\ +4.3\ell \end{array}$
$\begin{array}{r} 1.1\ell \\ +9.9\ell \end{array}$	$\begin{array}{r} 123.4\ell \\ +457.1\ell \end{array}$	$\begin{array}{r} 378.1\ell \\ +101.9\ell \end{array}$		$\begin{array}{r} 67.3\ell \\ +71.1\ell \end{array}$

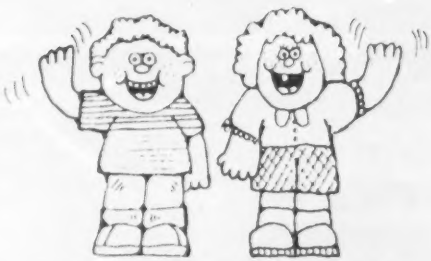


0.9 ℓ − 0.5 ℓ = 0.4 ℓ	0.7 ℓ − 0.1 ℓ	0.8 ℓ − 0.3 ℓ	0.5 ℓ − 0.3 ℓ	0.7 ℓ − 0.5 ℓ
0.5 ℓ + 0.2 ℓ	0.6 ℓ − 0.3 ℓ	0.7 ℓ − 0.3 ℓ	0.4 ℓ − 0.2 ℓ	0.8 ℓ − 0.4 ℓ
1.4 ℓ − 0.7 ℓ	1.2 ℓ − 0.6 ℓ	1.6 ℓ − 0.8 ℓ	1.8 ℓ − 0.9 ℓ	1.1 ℓ − 0.8 ℓ
1.0 ℓ − 0.5 ℓ	1.0 ℓ − 0.4 ℓ	1.2 ℓ − 0.7 ℓ	1.0 ℓ − 0.3 ℓ	0.9 ℓ − 0.6 ℓ
0.9 ℓ − 0.3 ℓ	0.8 ℓ − 0.4 ℓ	0.7 ℓ − 0.3 ℓ	0.8 ℓ − 0.5 ℓ	0.6 ℓ − 0.2 ℓ

$\overset{2}{\cancel{3}}\overset{1}{2}.2\,\ell - 1.8\,\ell = 1.4\,\ell$	$2.5\,\ell - 0.6\,\ell$	$4.1\,\ell - 2.7\,\ell$	$5.0\,\ell - 1.3\,\ell$	$5.0\,\ell - 3.9\,\ell$
$2.3\,\ell - 1.4\,\ell$	$3.0\,\ell - 1.5\,\ell$	$6.4\,\ell - 1.8\,\ell$	$4.6\,\ell - 1.9\,\ell$	$3.2\,\ell - 0.5\,\ell$
$3.7\,\ell - 1.9\,\ell$	$3.2\,\ell - 0.5\,\ell$	$6.8\,\ell - 1.9\,\ell$	$7.4\,\ell - 1.4\,\ell$	$4.4\,\ell - 25\,\ell$
$7.0\,\ell - 5.1\,\ell$	$3.3\,\ell - 1.6\,\ell$	$2.1\,\ell - 0.9\,\ell$	$6.0\,\ell - 2.8\,\ell$	$8.8\,\ell - 1.9\,\ell$
$3.6\,\ell - 1.7\,\ell$	$5.1\,\ell - 4.5\,\ell$	$6.5\,\ell - 1.8\,\ell$	$5.7\,\ell - 2.3\,\ell$	$6.6\,\ell - 4.7\,\ell$



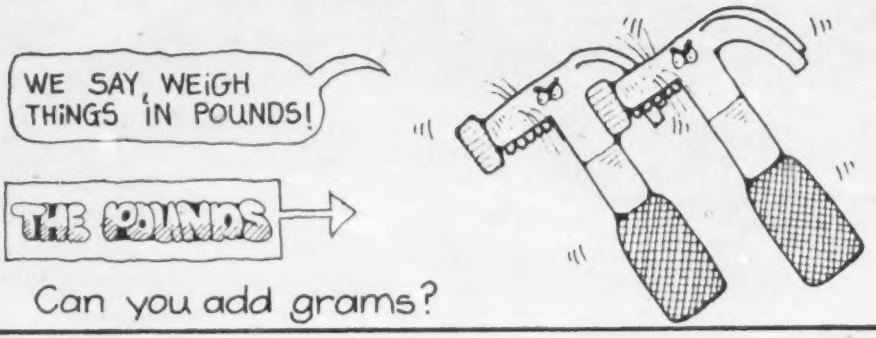




about _____ grams

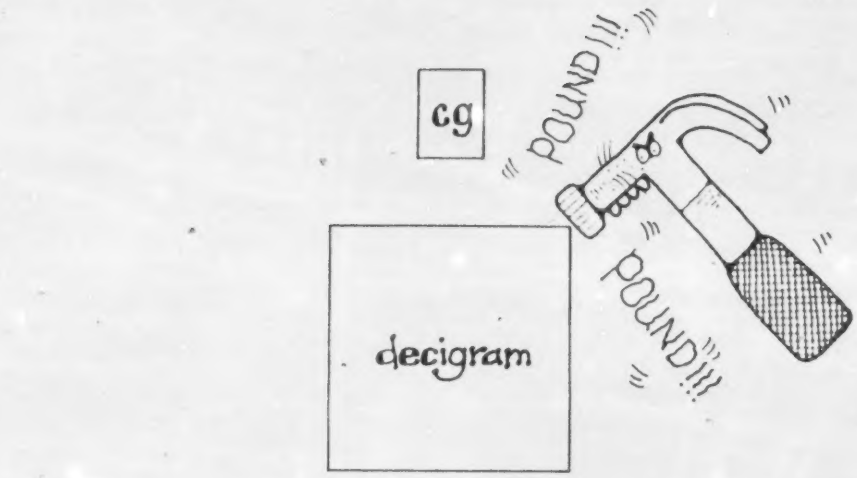
about _____ grams

about _____ grams



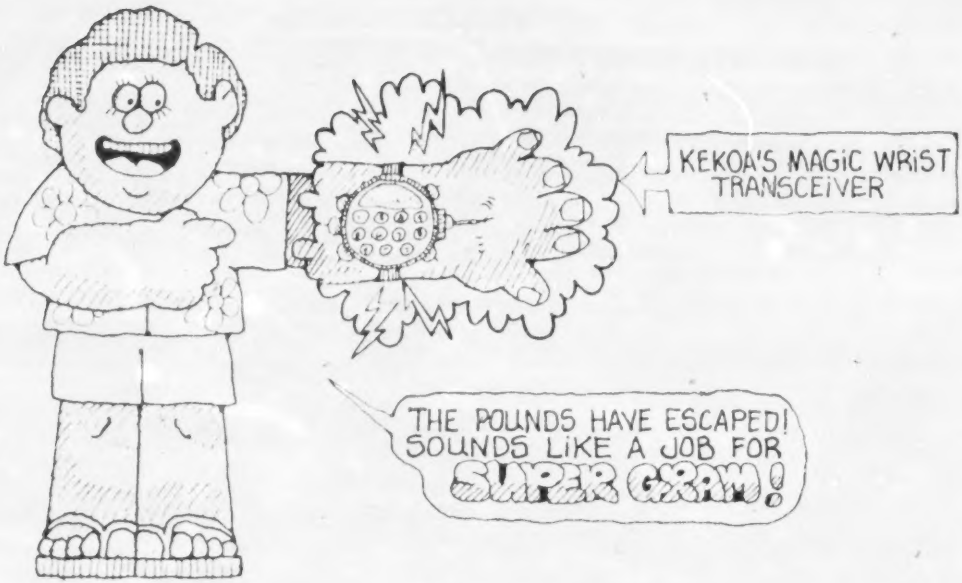
Can you add grams?

$\begin{array}{r} 4\,g \\ +\,2\,g \\ \hline 6g \end{array}$	$\begin{array}{r} 3\,g \\ +\,2\,g \\ \hline \end{array}$	$\begin{array}{r} 7\,g \\ +\,2\,g \\ \hline \end{array}$	$\begin{array}{r} 8\,g \\ +\,8\,g \\ \hline \end{array}$	$\begin{array}{r} 9\,g \\ +\,6\,g \\ \hline \end{array}$
$\begin{array}{r} 40g \\ +20g \\ \hline \end{array}$	$\begin{array}{r} 30g \\ +30g \\ \hline \end{array}$	$\begin{array}{r} 50g \\ +20g \\ \hline \end{array}$	$\begin{array}{r} 60g \\ +30g \\ \hline \end{array}$	$\begin{array}{r} 80g \\ +10g \\ \hline \end{array}$
$\begin{array}{r} 400g \\ +200g \\ \hline \end{array}$	$\begin{array}{r} 510g \\ +220g \\ \hline \end{array}$	$\begin{array}{r} 360g \\ +510g \\ \hline \end{array}$	$\begin{array}{r} 630g \\ +250g \\ \hline \end{array}$	$\begin{array}{r} 750g \\ +520g \\ \hline \end{array}$
$\begin{array}{r} 80g \\ +30g \\ \hline \end{array}$	$\begin{array}{r} 90g \\ +20g \\ \hline \end{array}$	$\begin{array}{r} 70g \\ +30g \\ \hline \end{array}$	$\begin{array}{r} 60g \\ +60g \\ \hline \end{array}$	$\begin{array}{r} 70g \\ +70g \\ \hline \end{array}$
$\begin{array}{r} 800g \\ +300g \\ \hline \end{array}$	$\begin{array}{r} 920g \\ +130g \\ \hline \end{array}$	$\begin{array}{r} 240g \\ +830g \\ \hline \end{array}$	$\begin{array}{r} 320g \\ +970g \\ \hline \end{array}$	$\begin{array}{r} 900g \\ +200g \\ \hline \end{array}$



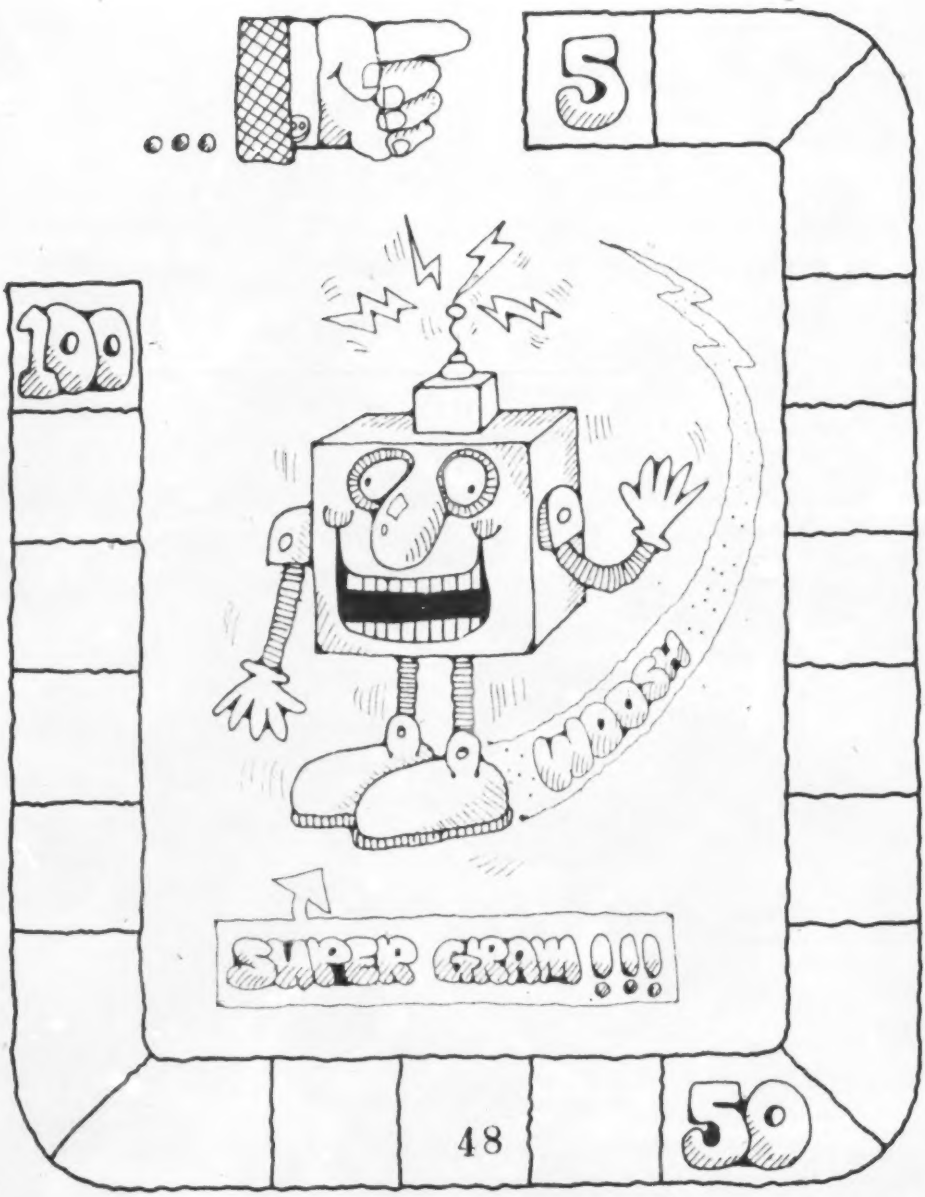
GRAM

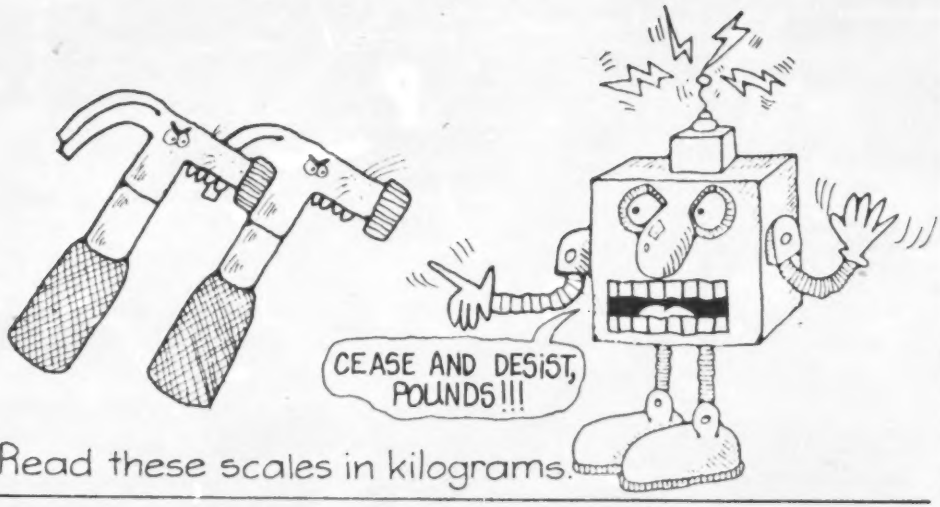
46



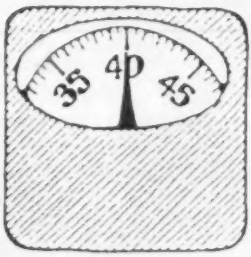
This is a chart of the **metric system**. Mark those units we have studied so far.

1000	kilometer (km)	kiloliter (kl)	kilogram (kg)
100	hectometer (hm)	hectoliter (hl)	hectogram (hg)
10	dekameter (dam)	dekaliter (dal)	dekagram (dag)
1	meter (m)	liter (l)	gram (g)
0.1	decimeter (dm)	deciliter (dl)	decigram (dg)
0.01	centimeter (cm)	centiliter (cl)	centigram (cg)
0.001	millimeter (mm)	milliliter (ml)	milligram (mg)

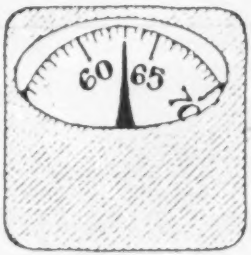

Count by 5's...
...
5
100
WOOSH
SUPER GRAM!!!
48
50



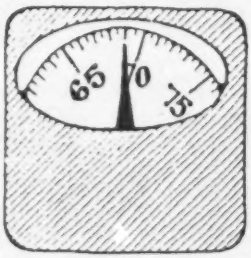
Read these scales in kilograms.



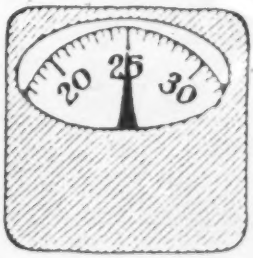
_____kilograms



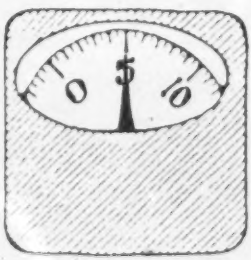
_____kilograms



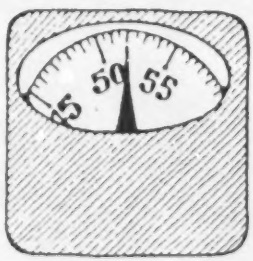
_____kilograms



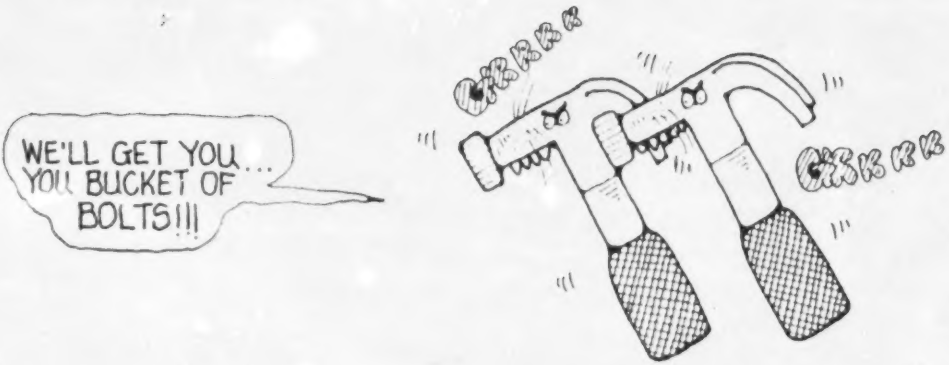
_____kilograms



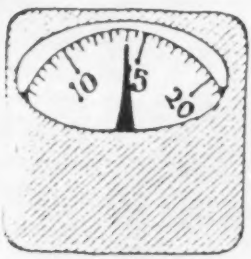
_____kilograms



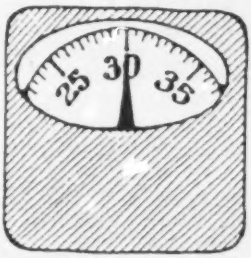
_____kilograms



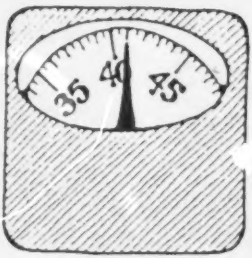
Read these scales in kilograms.



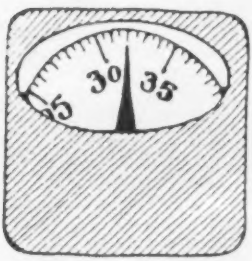
____kilograms



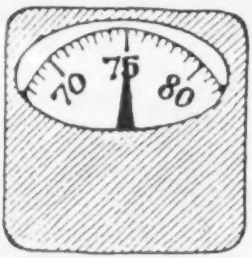
_____kilograms



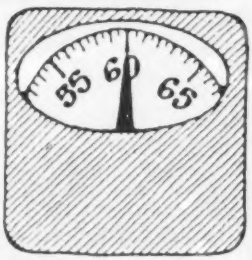
_____kilograms



_____kilograms

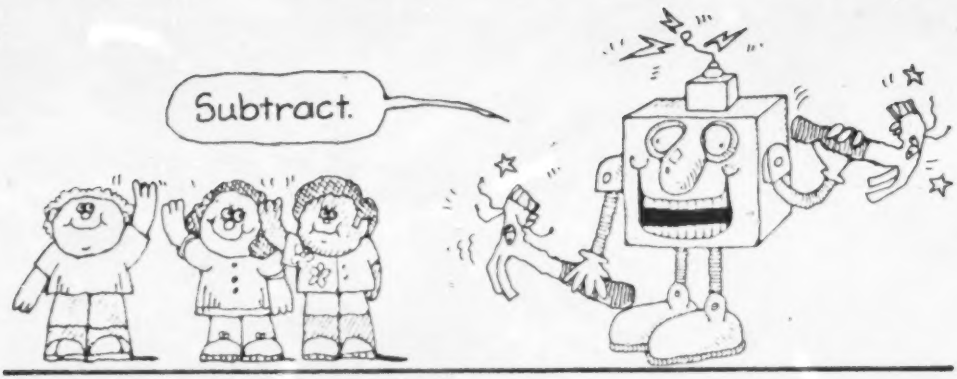


_____kilograms



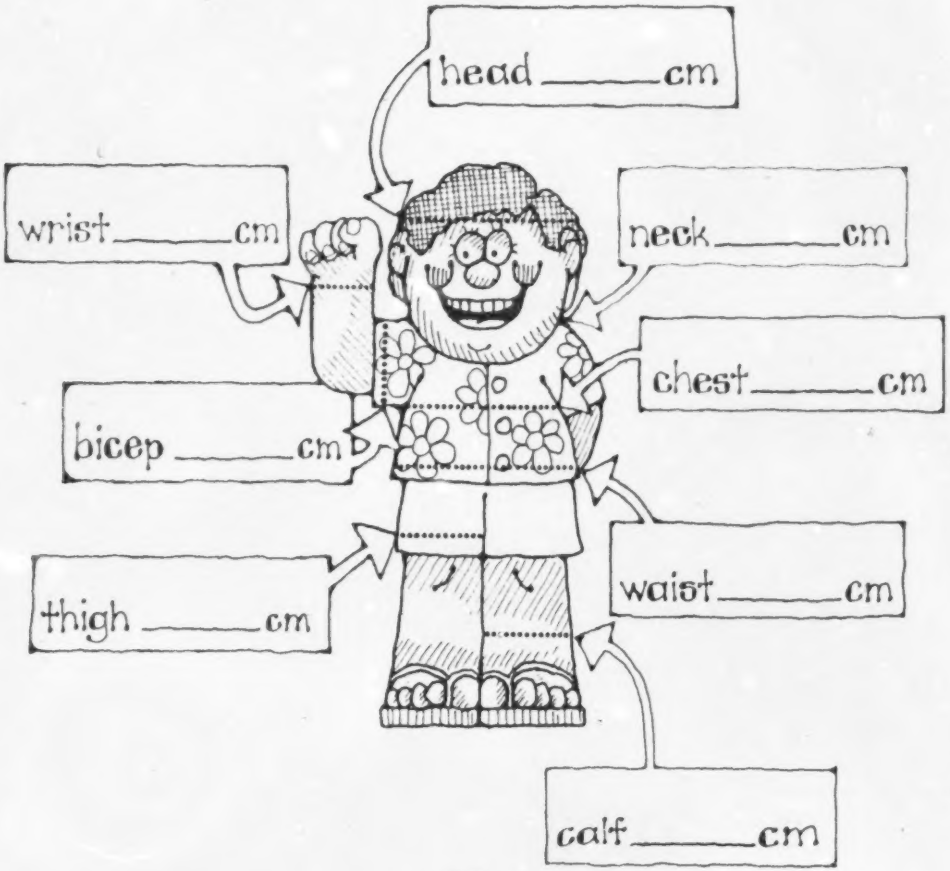
_____kilograms

6 kg + 8 kg 14 kg	5 kg + 5 kg	6 kg + 1 kg	60 kg + 10 kg	20 kg + 30 kg
1 kg + 7 kg	1 kg + 9 kg	7 kg + 7 kg	8 kg + 8 kg	5 kg + 2 kg
73 kg + 11 kg	52 kg + 11 kg	80 kg + 11 kg	28 kg + 11 kg	56 kg + 11 kg
10 kg + 22 kg	30 kg + 22 kg	60 kg + 22 kg	33 kg + 22 kg	55 kg + 20 kg
5 kg + 2 kg	9 kg + 9 kg	23 kg + 11 kg	9 kg + 1 kg	70 kg + 15 kg



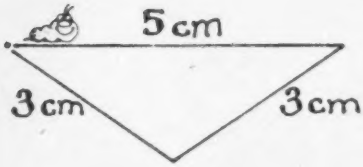
6 kg −3 kg	66 kg −33 kg	60 kg −30 kg	666 kg −333 kg
9 kg −4 kg	99 kg −44 kg	90 kg −40 kg	999 kg −444 kg
7 kg −2 kg	77 kg −22 kg	70 kg −40 kg	777 kg −444 kg
8 kg −2 kg	88 kg −22 kg	80 kg −20 kg	888 kg −222 kg
9 kg −7 kg	99 kg −77 kg	90 kg −70 kg	999 kg −777 kg

MY MEASUREMENTS

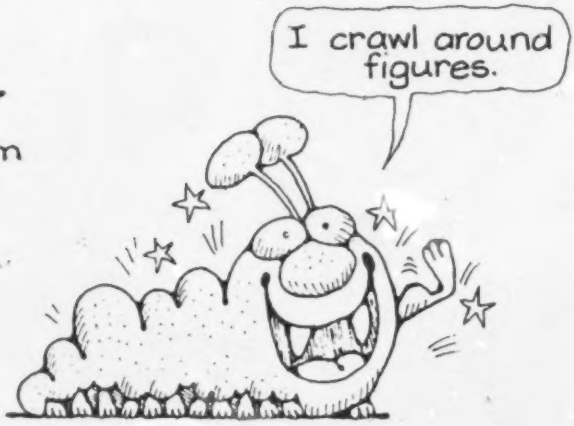


53

Kekoa calls on Wonder Worm to help Miss Aloha teach us about perimeter.

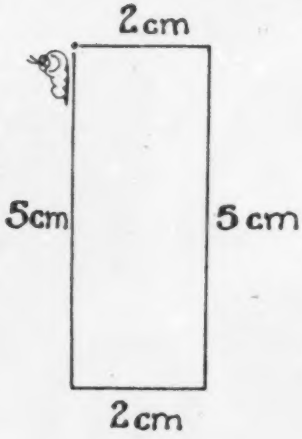


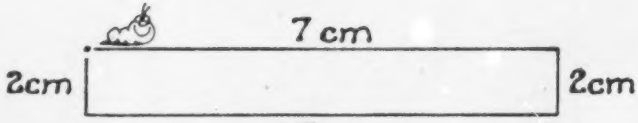
11 cm



How far does Wonder Worm go to get completely around each figure?

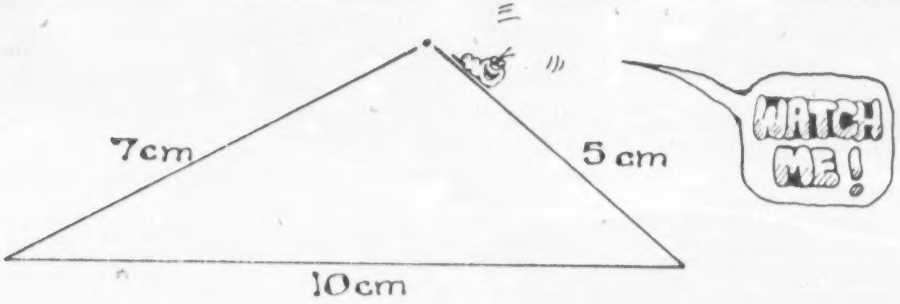
$$\begin{array}{r} 5 \\ 3 \\ +\ 3 \\ \hline 11 \end{array}$$



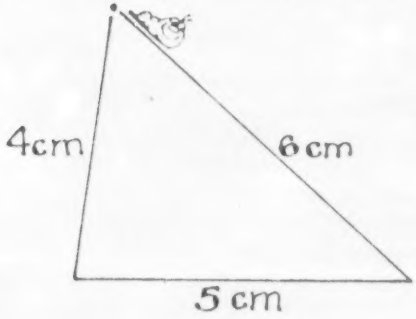


_____ cm

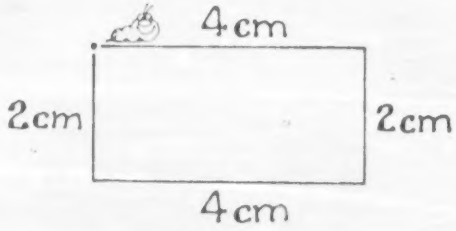
_____ cm


7cm
5 cm
10cm
WATCH ME!

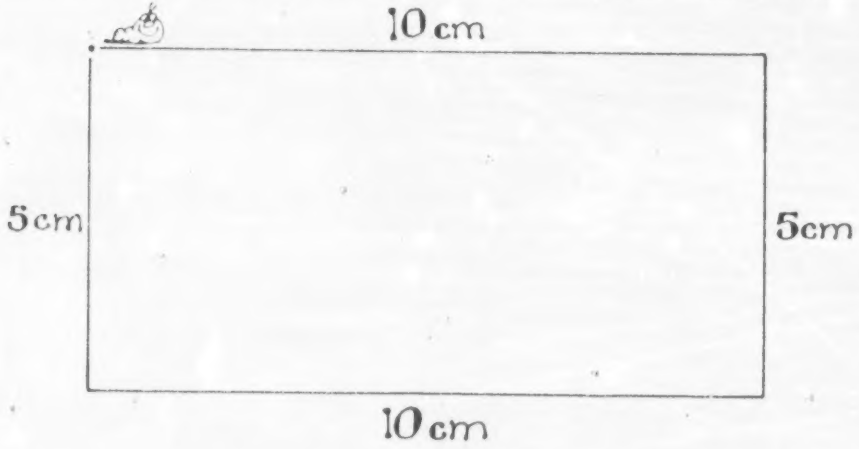
_____ cm


4cm
6cm
5 cm

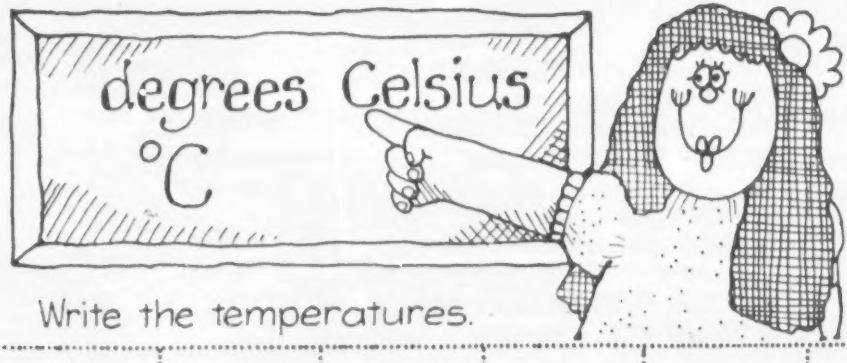
_____ cm


4cm
2cm
2cm
4cm

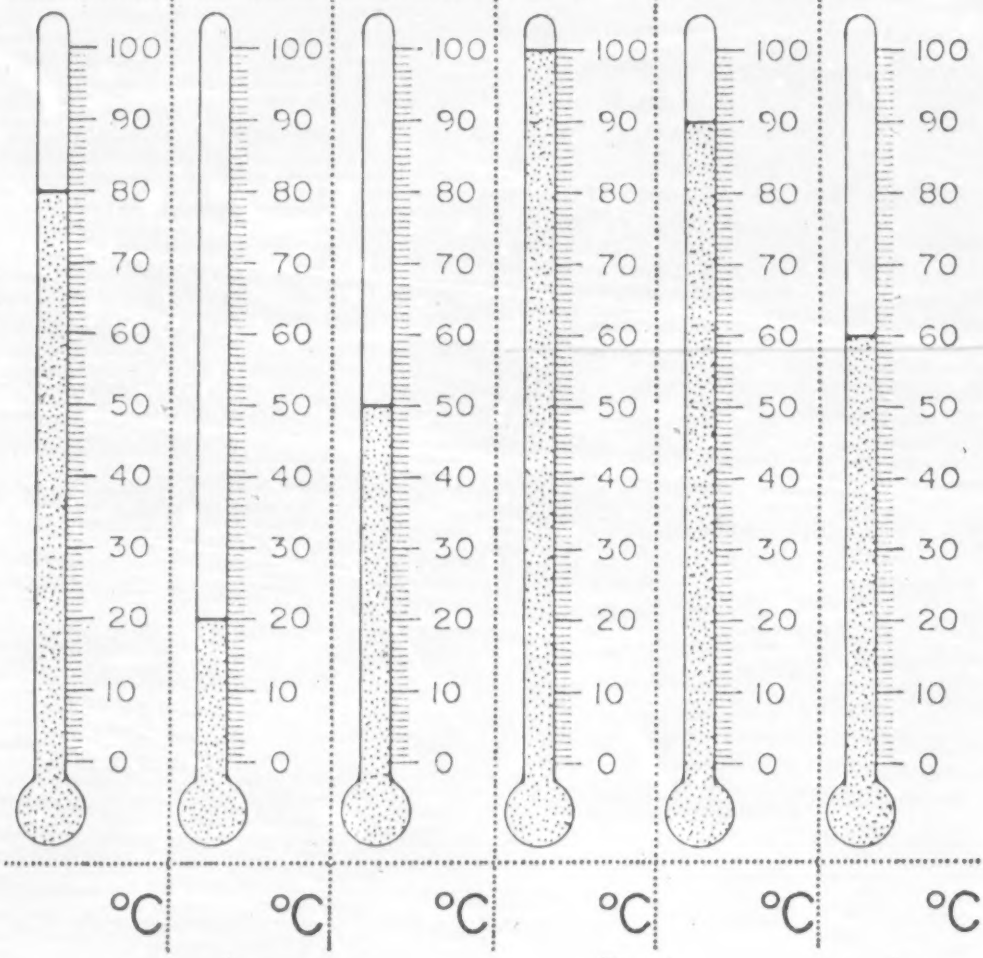
_____ cm

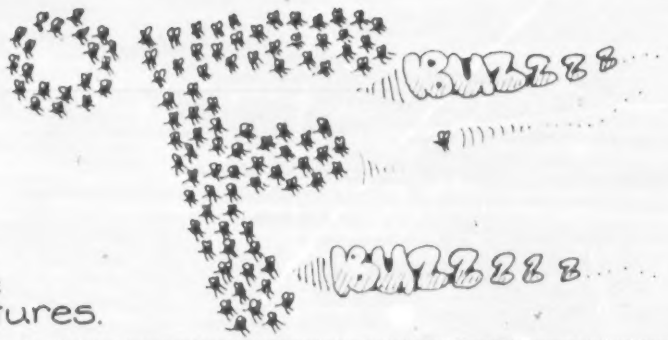

10cm
5cm
5cm
10cm

_____ cm

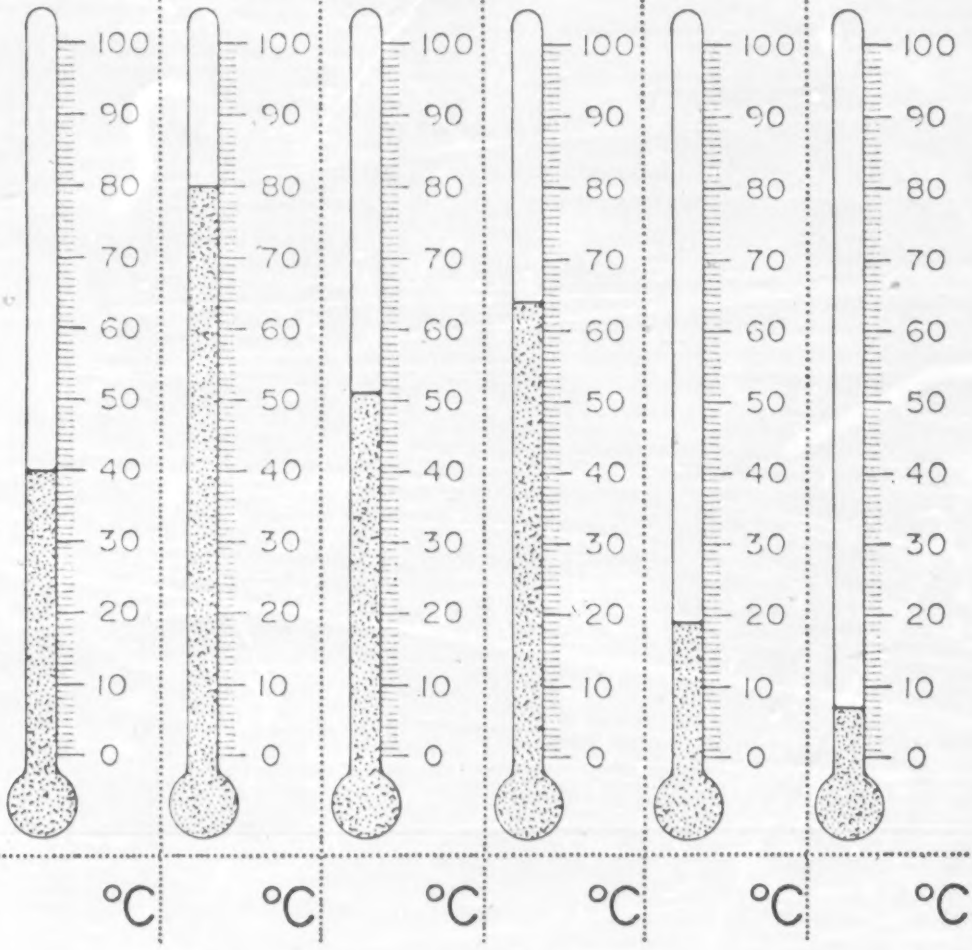


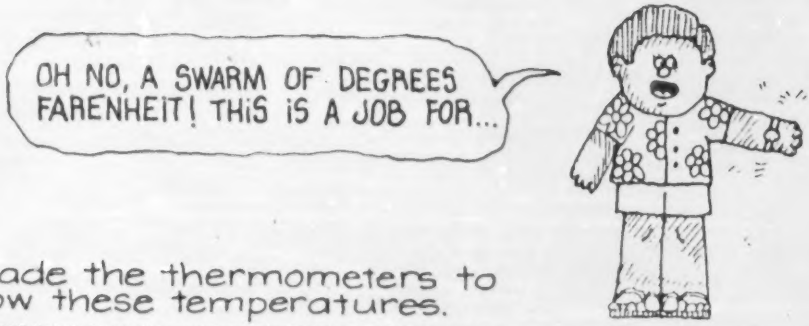
Write the temperatures.



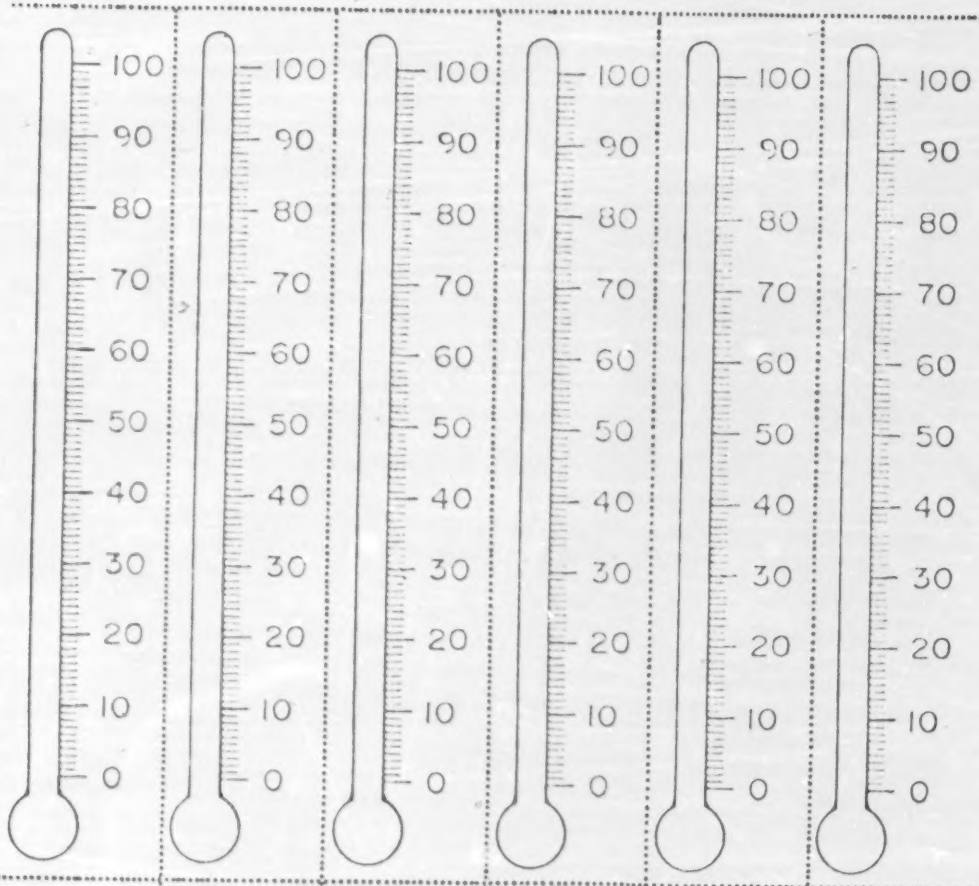


Write the temperatures.





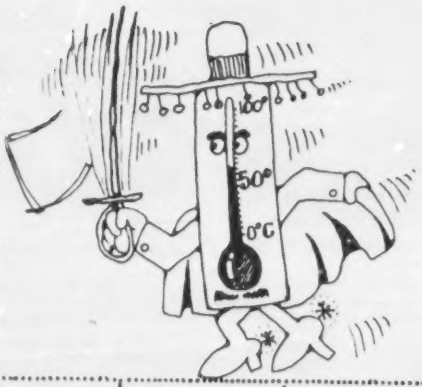
Shade the thermometers to show these temperatures.



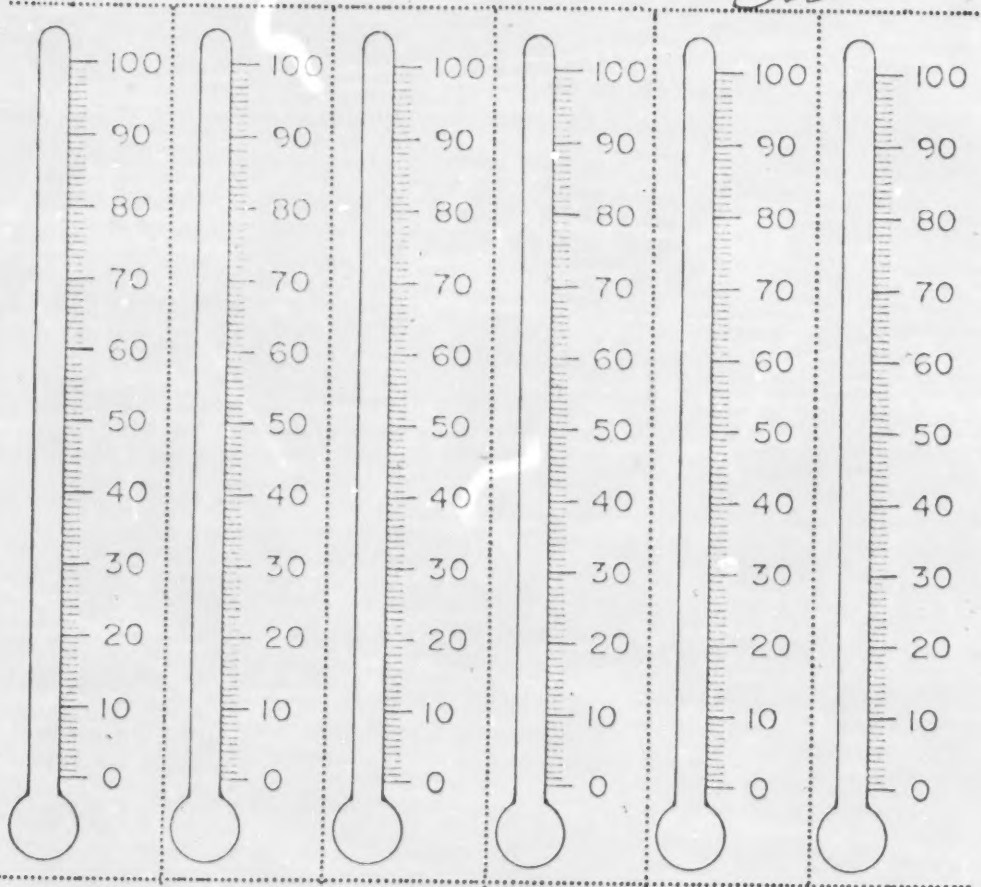
20 °C | 15 °C | 37 °C | 90 °C | 100 °C | 71 °C

Señor Celsius

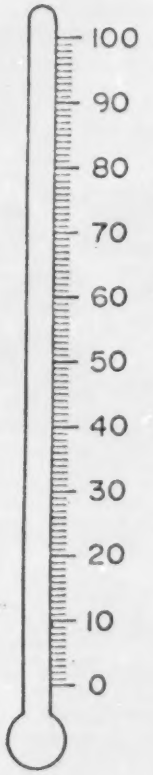
WHOSE SWIFT SWORD SLASHES THE SIGN OF THE °C.



Shade the thermometers to show these temperatures.

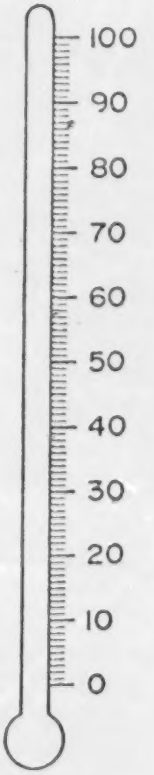


95 °C | 0 °C | 25 °C | 35 °C | 86 °C | 3 °C



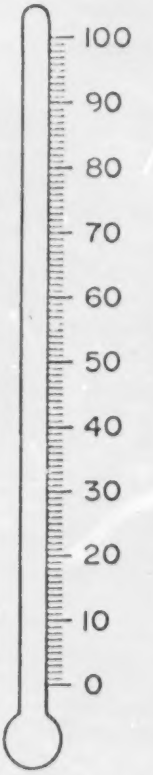
water

_____ °C



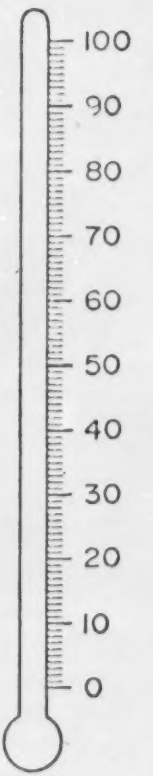
room

_____ °C



hand

_____ °C



a hot place

_____ °C

dm
dm
dm

cm
cm cm cm
cm

dm
dm
dm

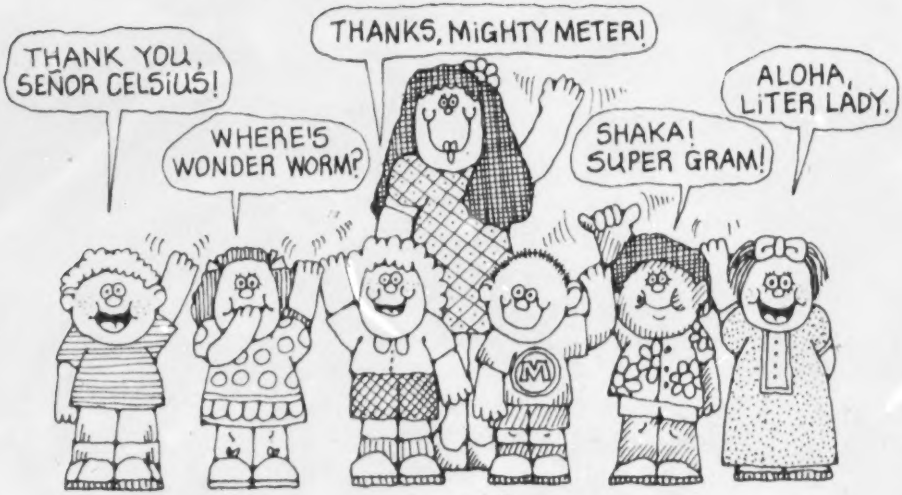
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

centimeters

dm
dm
dm

cm
cm cm
cm cm
cm

dm
dm
61 dm


THANK YOU, SEÑOR CELSIUS!
WHERE'S WONDER WORM?
THANKS, MIGHTY METER!
SHAKA! SUPER GRAM!
ALOHA, LITER LADY.